4.11.11 Spatial Subscription Server Command Line Interface

The Spatial Subscription Server (SSS) Command Line Interface (CLI) allows the user to add a new subscription, delete a subscription, update a subscription, or view a subscription without using a GUI. The details of the subscription are contained in a text file.

The CLI is installed in the utilities directory for each mode. You must go to the appropriate mode directory to access the correct database for a particular mode.

4.11.11.1 Quick Start Using Spatial Subscription Server Command Line Interface

To execute the CLI, run the script EcNbSubscriptionCLIStart. This script takes three parameters: (1) the mode, (2) the function (Add, Delete, Update and View), and (3) a third parameter, which depends on the function in (2). If the function selected was Delete or View, the third parameter must be the subscription number to be deleted or viewed. If the function selected was Add or Update, the third parameter must be the name of the text file containing the subscription information. This file is assumed to reside in the current directory unless expressed as a qualified pathname.

4.11.11.1.1 Invoking Spatial Subscription Server From the Command Line Interface

The Spatial Subscription Server Command Line Interface (CLI) allows the user to add a new subscription, delete a subscription, update a subscription, or view a subscription without using a GUI.

To execute the Spatial Subscription Server from the command line interface:

EcNbSubscriptionCLIStart <mode> <function> <function dependent parameter>

Examples:

```
EcNbSubscriptionCLIStart   OPS   Add    MyNewSubscription.txt
EcNbSubscriptionCLIStart   TS1   Delete 5199
EcNbSubscriptionCLIStart   TS2   Update /home/daacUser/MyOldSubscription.txt
EcNbSubscriptionCLIStart   OPS   View   2355
```

Notes:

(1) When adding a subscription, a new subscription number is assigned and returned as output to stdout.
(2) When deleting a subscription, the user is prompted to confirm the delete.
(3) When updating a subscription, the number of the subscription to be updated must appear within the text file containing the subscription data.
(4) When viewing a subscription, the output appears in a new file called sub.*nnn*.txt, where *nnn* refers to the subscription number. This file is created in the current directory.

(5) To save on typing when adding a subscription, it is helpful to start by viewing a subscription similar to the one being added, edit the resulting text file, and then submit that file as input to the Add command.
(6) Prior to updating a subscription, always view the subscription first and then make your changes in the resulting text file, submitting it as input to the Update command.
(7) Physical media distributions for subscriptions are now supported through the use of bundling orders. The simplest way to do this is to create a bundling order via the GUI and then "bundle" the subscription by specifying the bundling order ID (see table below). Alternatively, if a bundling order ID is not specified for a physical media distribution, a bundling order is automatically created for the subscription; however, in this case, all of the required information for the bundling order (such as shipping information) must be specified in the input file for the subscription.
(8) If the user updates a bundled subscription without altering the bundling order ID, the bundling order is updated along with the subscription.

There is a log file called EcNbSubscriptionCLI.log in the logs directory for each mode. If your command did not appear to succeed, be sure to check the log file to see what went wrong.

The text file generated by the View command, or used as input to the Add or Update commands, consists of several lines of name and values pairs of the form "NAME=value", one per line. If you wish to introduce comments into your text file, you may do so by starting the line for the comment with the "#" character.

Table 4.11.11-1 shows all possibilities for rows in the text file. This table is intended for reference only. If you have never entered a subscription before, it is recommended you start by entering a few subscriptions using the GUI. Then use the View command of the CLI to generate text files for these subscriptions. Modify these text files to serve as input for adding or updating subscriptions.

Table 4.11.11-1. Text File Contents (1 of 5)

Name	Type	Mandatory	Description
SUBSCRIPTION	Integer	Yes for Update or View; ignored by Add	The subscription number.
USERNAME	Variable Character	Yes	The name of the owner of the subscription. A user profile must already exist for the owner.
STATUS	Variable Character	Yes	The subscription status: Active, Inactive or Canceled.
EXPIRATION	Date/Time	No (defaults to one year from the current date if not specified)	The expiration date for the subscription.

Table 4.11.11-1. Text File Contents (2 of 5)

Name	Type	Mandatory	Description
ESDT_SHORT_NAME	Variable Character	Yes	The short name for the ESDT being subscribed to.
ESDT_VERSION	Integer	Yes	The version for the ESDT being subscribed to (e.g., 1, if version ID is 001).
EVENT_TYPE	Variable Character	Yes	The type of event being subscribed to: INSERT, DELETE, or UPDATEMETADATA.
NOTE: The next four lines should appear as a block in the text file. Up to five such blocks may be used.			
ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying numeric attribute. Use this only for attributes of type Integer, Float, or Date/Time.
ATTRIBUTE_TYPE	Variable Character	No	The type of a qualifying attribute: Integer, Float, or Date/Time.
ATTRIBUTE_MIN_VALUE	Integer, Float, or Date/Time	No	The smallest acceptable value for this attribute.
ATTRIBUTE_MAX_VALUE	Integer, Float, or Date/Time	No	The largest acceptable value for this attribute.
NOTE: The next three lines should appear as a block in the text file. Up to five such blocks may be used.			
STRING_ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying string attribute.
STRING_ATTRIBUTE_TYPE	Variable Character	No	This is always ‘varchar’.
STRING_ATTRIBUTE_VALUE	Variable Character	No	The value that this attribute must have in order to qualify.
NOTE: The next six lines should appear as a block in the text file. Only one such block may be used.			
SPATIAL_ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying spatial attribute: GPolygonContainer, BoundingRectangle, or Nose.
SPATIAL_ATTRIBUTE_TYPE	Variable Character	No	The type of a qualifying spatial attribute: gpolygon, llbox, or PathBlock, respectively.

Table 4.11.11-1. Text File Contents (3 of 5)

Name	Type	Mandatory	Description
SPATIAL_VALUE_SOUTH	Float	No	The lower latitude value for the qualifying rectangle.
SPATIAL_VALUE_WEST	Float	No	The lower longitude value for the qualifying rectangle.
SPATIAL_VALUE_NORTH	Float	No	The upper latitude value for the qualifying rectangle.
SPATIAL_VALUE_EAST	Float	No	The upper longitude value for the qualifying rectangle.
NOTIFY_EMAIL_ADDRESS	Variable Character	No	The email address of the recipient if email notification is desired.
NOTIFY_USER_STRING	Variable Character	No	An optional user string to be included in the email.
NOTIFY_METADATA	Character	No	Indicates whether the email should include all metadata (Y) or just metadata associated with the subscription qualifiers (N).
ACQUIRE_USERNAME	Variable Character	No	The user profile name requesting an acquire.
ACQUIRE_USERSTRING	Variable Character	No	An optional string to be included in the distribution notice.
ACQUIRE_EMAIL_ADDRESS	Variable Character	No	The email address for “acquire” notification. This defaults to the email address in the user profile if not specified here.
ACQUIRE_MEDIA_FORMAT	Variable Character	No	At present, this value should always be FILEFORMAT,
ACQUIRE_MEDIA_TYPE	Variable Character	No	The type of acquire: FtpPush or FtpPull.
ACQUIRE_PRIORITY	Variable Character	No	The distribution priority: VHIGH, HIGH, NORMAL, LOW, or XPRESS. This defaults to the distribution priority in the user profile if not specified here.
ACQUIRE_NOTIFY_TYPE	Variable Character	No	At present, this should always be MAIL.
ACQUIRE_FTP_USER	Variable Character	No	The FTP login name for an FTP push operation.
ACQUIRE_FTP_PASSWORD	Variable Character	No	The password for an FTP push operation.
ACQUIRE_FTP_HOST	Variable Character	No	The destination hostname for an FTP push operation.
ACQUIRE_FTP_DIR	Variable Character	No	The destination directory for an FTP push operation.
BUND_USER_NAME	Variable Character	Yes, if adding a new bundling order	If present, it must be the same as USERNAME.

Table 4.11.11-1. Text File Contents (4 of 5)

Name	Type	Mandatory	Description
BUND_ORDER_ID	Variable Character	No	The ID of the bundling order to be associated with this subscription. If present, a new subscription is associated with the existing bundling order. If absent, a new order in EcAcOrder is created using the information in BUND_MEDIA_TYPE, BUND_SHIP_PHONE, BUND_SHIP_CTRY, BUND_SHIP_STATE, BUND_SHIP_CITY, BUND_SHIP_FAX, BUND_SHIP_STREET_1, BUND_SHIP_STREET_2, BUND_SHIP_STREET_3, BUND_SHIP_ZIP, BUND_DIST_PRIOR and information obtained from MsAcUsrProfile for USERNAME. A new request in EcAcRequest is created using the above and some or all of BUND_FTP_HOST, BUND_FTP_PASSWORD, BUND_FTP_DIR, and BUND_FTP_USER.
BUND_MAX_BUND_AGE	Float	No	The number of hours which a bundle can have requests incorporated before it is expired.
BUND_MEDIA_TYPE	Variable Character	Yes, if adding a new bundling order	The media type for bundled requests.
BUND_MIN_GRAN_COUNT	Integer	No	The minimum number of granules a bundle can contain before it is distributed.
BUND_MIN_BUND_SIZE	Float	No	The minimum size in MB a bundle must attain before it is distributed.
BUND_EMAIL_NOTIFICATION_ADDR	Variable Character	No	Free text field to record the optional distribution parameter NOTIFY.
BUND_USER_STRING	Variable Character	No	Optional distribution option, which identifies a request.
BUND_DIST_PRIOR	Variable Character	No	Distribution priority of the bundling order.
BUND_FTP_HOST	Variable Character	No	The destination hostname for an FTP push operation.
BUND_FTP_PASSWORD	Variable Character	No	The FTP password for an FTP push operation.
BUND_FTP_DIR	Variable Character	No	The destination directory for an FTP push operation.
BUND_FTP_USER	Variable Character	No	The FTP login name for an FTP push operation.
BUND_SHIP_PHONE	Variable Character	No	The phone number for the user requesting the order.

Table 4.11.11-1. Text File Contents (5 of 5)

Name	Type	Mandatory	Description
BUND_SHIP_CTRY	Variable Character	No	The country the order should be shipped to.
BUND_SHIP_STATE	Variable Character	No	The state the order should be shipped to.
BUND_SHIP_CITY	Variable Character	No	The city the order should be shipped to.
BUND_SHIP_FAX	Variable Character	No	The fax number for the user requesting the order.
BUND_SHIP_STREET_1	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_STREET_2	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_STREET_3	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_ZIP	Variable Character	No	The zip code of address to which the order should be shipped.

4.11.11.2 Spatial Subscription Server Command Line Interface Main Screen

The Spatial Subscription Server (NBSRV) Command Line Interface does not have a main screen. It is a command line interface only.

4.11.11.3 Required Operating Environment

O/S requirements are Solaris 2.5.1 or better, or SGI IRIX 6.5 or better.

4.11.11.4 Databases

The Spatial Subscription Server GUI accesses the Spatial Subscription Server, Science Data Server, Data Dictionary and System Management Subsystem's Accountability databases.

4.11.11.5 Special Constraints

There are no special constraints to running the Spatial Subscription GUI.

4.11.11.6 Outputs

There are no outputs from the Spatial Subscription GUI, except for status and error messages.

4.11.11.7 Event and Error Messages

The Spatial Subscription Server GUI issues client side validation errors when adding or modifying a subscription. If the operator does not correct the validation errors, the subscription is rejected when the operator attempts to add or update the subscription. The NBSRV GUI writes status and error messages to the EcNbGUI.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.11.8 Reports

The NBSRV GUI does not generate reports.

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4.11.12 Bulk Metadata Generation Tool

The EcBmBulkURL Utility allows operators to make available the File Transfer Protocol (FTP) Universal Resource Locators (URLs) in the Data Pool to the ECS Clearing House (ECHO). These FTP URLs correspond to the products that have already been exported at some prior time by the Bulk Metadata Generation Tool (BMGT).

EcBmBulkURL must be run as cmshared.

The BMGT was enhanced to allow the export of AIRS Summary Browse Products (ASBPs) to ECHO. During generation of ECSBBR products, the BMGT searches the Science Data Server database to find all AIRS products inserted during the export time frame, and then finds all ASBPs associated with these AIRS products. The BMGT includes an association between each AIRS granule and its corresponding ASBP in the ECSBBR browse extensible markup language (XML) file.

ECHO has FTP push subscriptions against ECSBBR inserts, as a result of which the ECSBBR granules are pushed to ECHO for processing. As the ECSBBR granule is acquired for this purpose, ECS includes ASBP granules in the distribution along with all the other non-AIRS browse granules defined in the ECSBBR XML granule file. As a result, ECHO receives the ECSBBR granule, along with the ASBP and standard browse granules.

This enhancement did not impact the usage of the BMGT. Reference Bulk Metadata and Browse Export Capability white paper, 170-WP-023-006 dated 11/2002, for BMGT usage information.

4.11.12.1Invoking the Bulk Metadata Generation Tool Utility

The EcBmBulkURL Utility can be invoked in two ways.

1. By entering the following command from the /usr/ecs/<MODE>/CUSTOM/utilities directory:

> **EcBmBulkURLStart <MODE> Insert**

This command is run, to generate the ECS related ftp URLs in the Datapool database for the time range specified in the EcBmBulkURLConfigParams.xml file. This generates the URLs for the products that have been already exported by the BMGT. The generated products are placed in the /datapool/<MODE>/user/URLExport directory, which is available for access by ECHO.

2. By invoking the Datapool Cleanup Script:

> **EcDlCleanupDataPool.pl <MODE>**

EcDlCleanupDataPool.pl is a cleanup script, which deletes granules that have expired, from the Datapool database. This script automatically invokes the EcBmBulkURLStart script in Delete mode. The EcBmBulkURLStart script then generates the products, which have been deleted from the Datapool database, whose ftp URLs have been previously exported at some point in time.

Table 4.11.12-1 provides a description of these parameters.

Table 4.11.12-1. Bulk Metadata Generation Tool Command Line Parameters

Parameter Name	Description
MODE	An input parameter specifying the mode of operation. This must be the first parameter on the command line, and it must be a valid, existing Data Pool mode (i.e., OPS, TS1, or TS2).
Insert	Indicates the ftp URL inserted into the Datapool database is made available to ECHO.

4.11.12.2 NetWorker Main Screen

The Bulk Metadata Generation tool utility has no main screen. It has a command line interface only.

4.11.12.3 Required Operating Environment

The EcBmBulkURL Utility runs on Sun platforms.

4.11.12.4 Databases

Table 4.11.12-2 lists the supporting products that this tool depends upon to function properly.

Table 4.11.12-2. Bulk Metadata Generation Tool Interface Protocols

Product Dependency	Protocols Used	Comments
Data Pool database	SQL	Via SQL server machines.
Java	Ire	Requires proper installation of base-lined version of Ire.
JDBC	Iconnect	Requires proper installation of base-lined version of JDBC.
Jaxp	Jaxp1.0.1	Requires proper installation of base-lined version of Jaxp1.0.1.

If a Sybase error occurs, you are most likely to see the actual Sybase error string displayed on the screen and in the log. Some errors are the database server is unavailable, the connection to the database was dropped, or there was an error executing the stored procedure. In the event of a Sybase-sourced error, the utility immediately stops running.

4.11.12.4.1 Configuration File Format – EcBmBulkURLConfigParams.cfg.

The "config" file contains vital details about how to connect to the Sybase database, what the time range for the run is, where the output files should be placed, etc. Without this file, the utility cannot run. The configuration file is an XML file. Table 4.11.12-3 describes the elements contained in the Bulk URL configuration file.

Description of the individual elements in the configuration file that operators may want to set:

Table 4.11.12-3. Bulk Metadata Generation Tool Configuration File Elements

Element Name	Description
doPreviousFlag	Set to “true”, if operators need to run previous the utility for previous day or hour or “false” if the utility is to be run for a date range.
duration	This can be either “day” or “hour.” This is only effective when doPreviousFlag is set to “true.”
count	Set it for the duration that the run is needed. This is only effective when doPreviousFlag is set to “true.”
programId	Program ID used for connecting to the Data Pool database.
startDate	The start date for the period for which the utility is to be run. This is only effective if doPreviousFlag is set to “false.”
endDate	The end date for the period for which the utility is to be run. This is only effective if doPreviousFlag is set to “false.”

4.11.12.5 Special Constraints

The EcBmBulkURL Utility runs only if the Data Pool and database servers are up and available. The stored procedures it uses must also be present in the Data Pool database.

4.11.12.6 Outputs

Output files generated are placed in the directory mentioned in the EcBmBulkURLParams.cfg file. Usually, it is as follows:

/datapool/<MODE>/user/ URLExport

4.11.12.7 Event and Error Messages

Events and error messages are written to the log file. A usage message is displayed to the screen when command-line parameters are incorrectly specified.

The utility produces log files called EcBmBulkURL.ALOG and EcBmBulkURLDebug.log in the /usr/ecs/<mode>/CUSTOM/logs directory. A new log file with this name is automatically created, and the old log files are renamed with a timestamp.

4.11.12.8 Reports

There are no reports generated by the Bulk Metadata Generation Tool utility.

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4.11.13 HEG Data Pool Order Status GUI

The web-based HDF-EOS to GeoTIF Converter (HEG) Data Pool Order Status GUI is provided to assist DAAC operators in tracking and controlling HEG orders. This GUI provides a very simple set of screens that allow for the following functionality:

- Start/stop the HEG Front End
- Change processing queue configuration and server process settings
- Change the state of an order or an order item

4.11.13.1 Quick Start Using the HEG Data Pool Order Status GUI

Bring up the Web Browser and then access the Universal Resource Locator (URL) for the Order Status user interface (the URL is <webaccess_host>:<port>/<mode>/order). This brings the operator directly into the Queue control screen.

4.11.13.1.1 Queue Control Screen

The Queue Control screen (Figure 4.11.13-1) contains the following:

- HEG Front End Server:
    - Status: UP or DOWN
    - Control 1: 'Exit Gracefully': waits for all children (actual converter processes) to finish processing before exiting. This control is a form submit and as such does not need an 'Apply' to activate it
    - Control 2: 'Exit Immediately (No Cleanup)': kills all children without waiting for processing completion and then immediately exits. This control is also a form submit and as such does not need an 'Apply' to activate it
- HEG Front End Processing State: Either process orders in the order queue or do not. The order queue is the DlCartOrder table in the database.
- Maximum Number of HEG Converter Processes: Sets the limit for concurrently running converter processes. Reaching the limit just means that orders in the queue wait longer to start processing (they wait for the next available converter process slot).
- Maximum Order Queue Size: Sets the maximum number of orders the order queue holds. Once the limit is reached, users receive a message when attempting to place an order that tells them the order queue is full and to try again later.
- Maximum Packaging Processes: REMOVED FOR DELIVERY VERSION OF CODE.

Unless otherwise noted, the operator adjusts/changes the values by entering a new value in the input box. The operator must click on the **Apply Changes** button to initiate the changes. The operator can click on **Reset** to restore initial values if the changes have not been initiated.

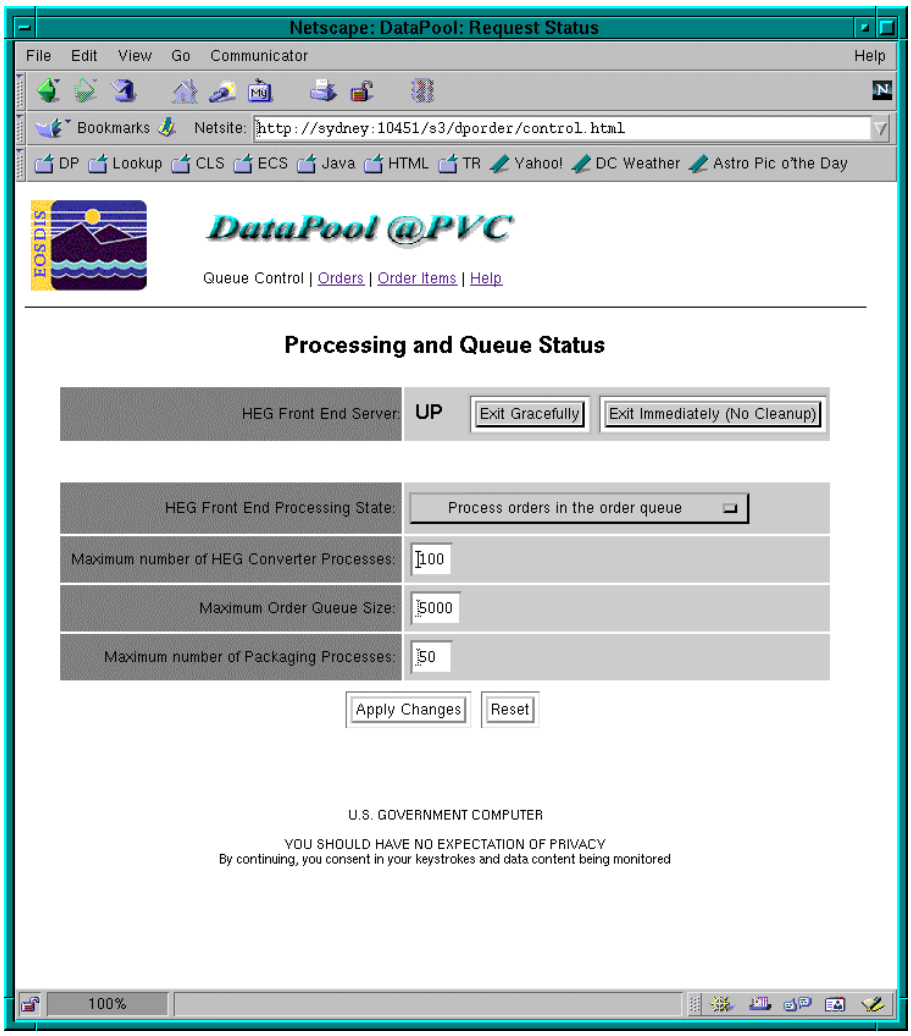

Figure 4.11.13-1. HEG Front-end Queue Control

4.11.13.1.2 Order Status Screen

The Order Status screen, Figure 4.11.13-2 shows the orders that are currently within the queue. Orders may be sorted and filtered by the controls indicated on the screen. Clicking on the Order ID link will display the order items (granules) associated with the selected order. Order details (a dump of what is in DlCartOrder for the selected Order ID) may be viewed by selecting the Magnifier icon next to the Order ID link.

Figure 4.11.13-2. Order Status Screen

4.11.13.1.3 Order Item Status Screens

The Order Item Status screen, Figure 4.11.13-3, shows the individual order items and their current status. Order items can be sorted and filtered by the controls displayed on the screen. Order item details (a dump of what is in DlCartOrderItem for the selected Item ID) can be viewed by clicking on the magnifier icon next to the Item ID link (see Figure 4.11.13-4).

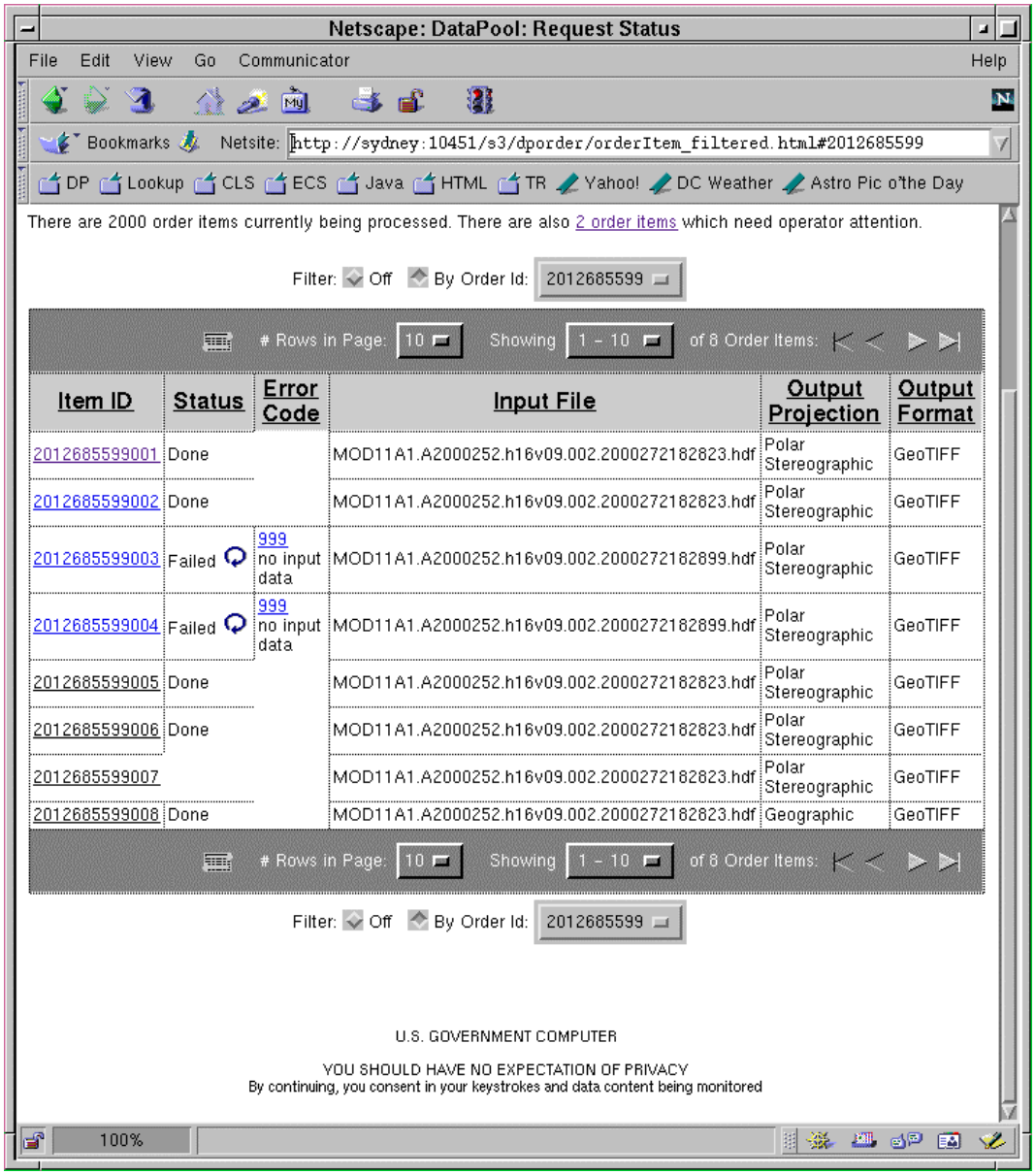

Figure 4.11.13-3. Order Item Status Screen

Figure 4.11.13-4. Order Item Details

4.11.13.2 HEG Data Pool Order Status Main Screen

See Sub-section 4.11.13.1.1.

4.11.13.3 Required Operating Environment

The following environment is required for the GUI to work properly.
The O/S requirements are Solaris 2.5.1 or better.

4.11.13.4 Databases

The GUI accesses the DataPool databases.

4.11.13.5 Special Constraints

There are no special constraints to running the GUI.

4.11.13.6 Outputs

There are no outputs from the GUI, except for status and error messages.

4.11.13.7 Event and Error Messages

The GUI writes status and error messages to the EcDlHEGFrontEnd.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.13.8 Reports

The GUI does not generate reports.

4.11.14 Data Pool Maintenance GUI

The Data Pool Maintenance (DPM) GUI provides an operator interface to monitor the current status of Data Pool Inserts and to maintain specific Data Pool parameters. This GUI manages ECS and Non-ECS data collections. Specifically, the DPM GUI provides the following capabilities:

- Monitor the active insert processes
- Monitor the Data Pool Insert Queue
- Manage existing Data Pool Collection Groups
- Add new Data Pool Collection Groups (includes ECS and Non-ECS)
- Manage existing Data Pool Collection Themes
- Add new Data Pool Collection Themes
- Suspend and Resume Data Pool Inserts
- Turn the NoFreeSpace Flag on or off
- Configure parameters used by the Data Pool Action Driver (DPAD) and the Data Pool Insert Utility (DPIU)

4.11.14.1 Quick Start Using the Data Pool Maintenance GUI

Bring up the Web Browser and then access the URL for the DPM GUI web page.

For example, http://<host name location>:22111/DataPool.html

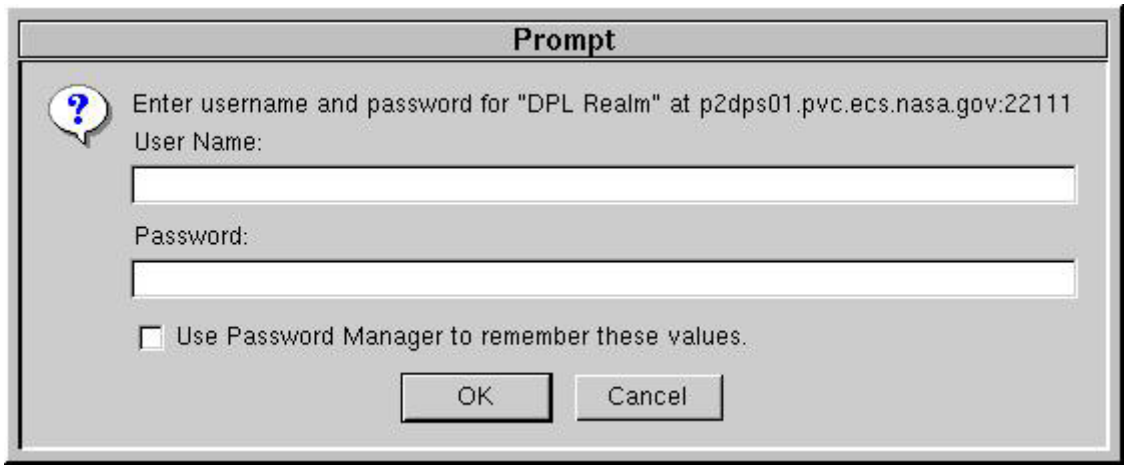

Figure 4.11.14-1. Login Prompt

4.11.14.1.1 DPM Home Page

The DPM Home Page screen shown in Figure 4.11.14-2 gives the operator current status of Data Pool Inserts. The screen is refreshed automatically. The operator is shown the current screen refresh rate, the current chunk size for the list of active insert processes. Minimum values for screen refresh rate is 60 seconds and Active Insert Process List row size is 1. Maximum value for

Active Insert Process List row size is 100. The operator must click on the adjacent **Apply** button to initiate changes. Summary of Data Pool File System table displays current status of the FreeSpace Flag, Availability Flag, and amount of desired free space in megabytes for each file system. Summary of Active Processes table displays configured number of Maximum Allowed Processes, the Maximum Allowed Processes from AMASS cache, the Maximum Allowed Processes from AMASS tape, the total number of active insert processes running, the number of active insert processes using AMASS cache, the number of active insert processes using AMASS tape. The list of Active Insert Processes table displays the current status of the active insert processes. The screen can be immediately refreshed by clicking on the **Refresh Home Page** link. Use the tab buttons at the top to navigate to the Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File System, Compression Algorithm, Cloud Cover, Configuration Parameters, Aging Parameters, and End Session screens.

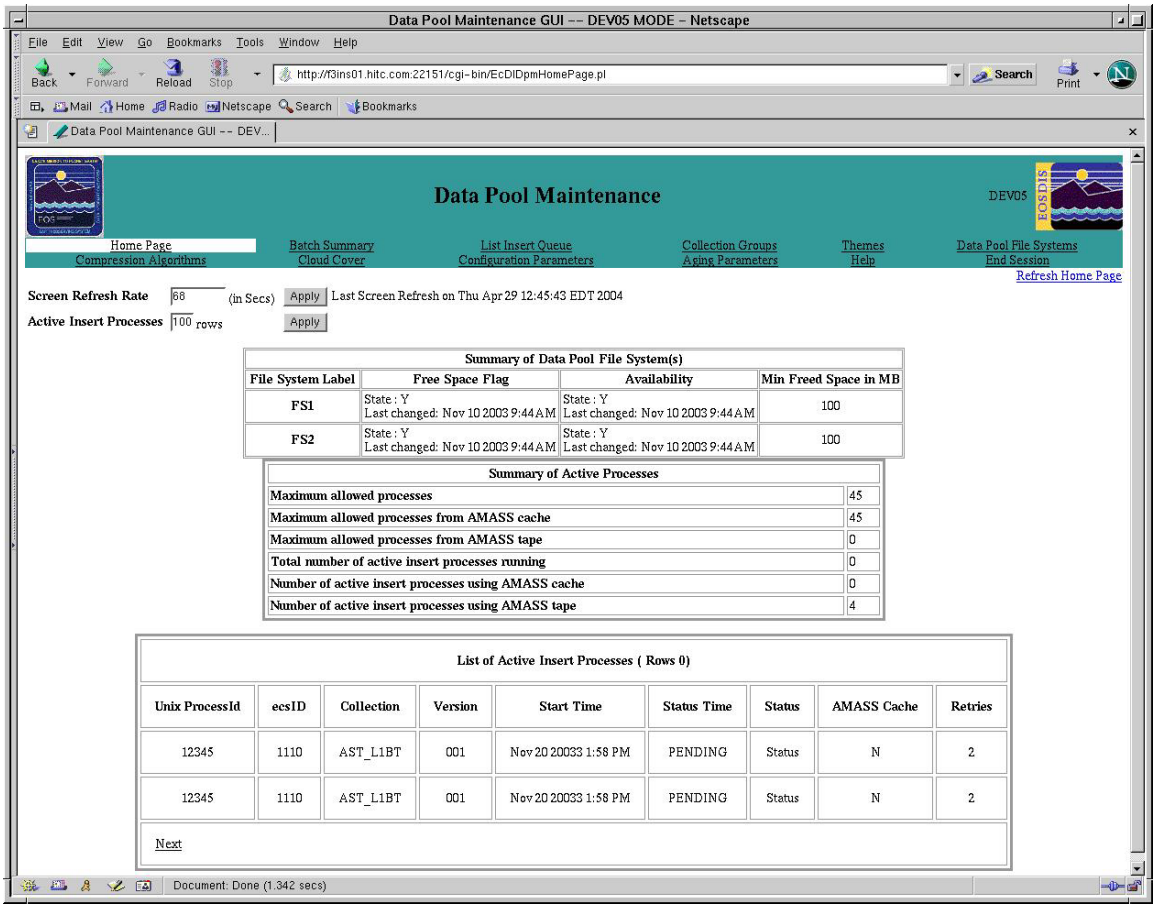

Figure 4.11.14-2. Data Pool Maintenance Home Page

Table 4.11.14-1. DPM Home Page Field Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
Screen Refresh Rate	Integer	4	Optional	Allows the operator to adjust the Screen Refresh Rate in seconds.
Active Insert Processes	Integer	4	Optional	Chunk size to set for the list of active insert processes. Default is 100
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space in MB	int	4	Optional	Amount space must be freed in order to make the file system available
Maximum allowed processes	int	4	System Generated	Maximum allowed processes for Data Pool
Maximum allowed processes from AMASS cache	int	4	System Generated	Maximum allowed processes from AMASS cache
Maximum allowed processes from AMASS tape	int	4	System Generated	Maximum allowed processes from AMASS tape
Total number of active insert processes running	int	4	System Generated	Total number of active insert processes running
Number of active insert processes using AMASS cache	int	4	System Generated	Number of active insert processes using AMASS cache
Number of active insert processes using AMASS tape	int	4	System Generated	Number of active insert processes using AMASS tape
Unix Process ID	char	10	System Generated	Unix Process ID
ECS ID	char	10	System Generated	ECS ID number
Collection	char	20	System Generated	Name of collection
Version	int	4	System Generated	Version number
Start Time	char	10	System Generated	Process start time
Status Time	char	10	System Generated	Process status time
Status	char	10	System Generated	Status of the process

Table 4.11.14-1. DPM Home Page Field Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
AMASS Cache	char	1	System Generated	Indicates if the process belongs to AMASS cache or not
Retries	int	4	System Generated	Number of retries in case of failures

4.11.14.1.2 Batch Summary Tab

The Batch Summary Screen shown in Figure 4.11.14-3 displays a summary of the status of Data Pool inserts for each batch label. Status includes new, completed, failed, retried, and cancelled inserts. Minimum refresh rate is 1 minute. The **Apply Refresh Rate** button will refresh the screen with any updated information in the fields within a specified amount of time.

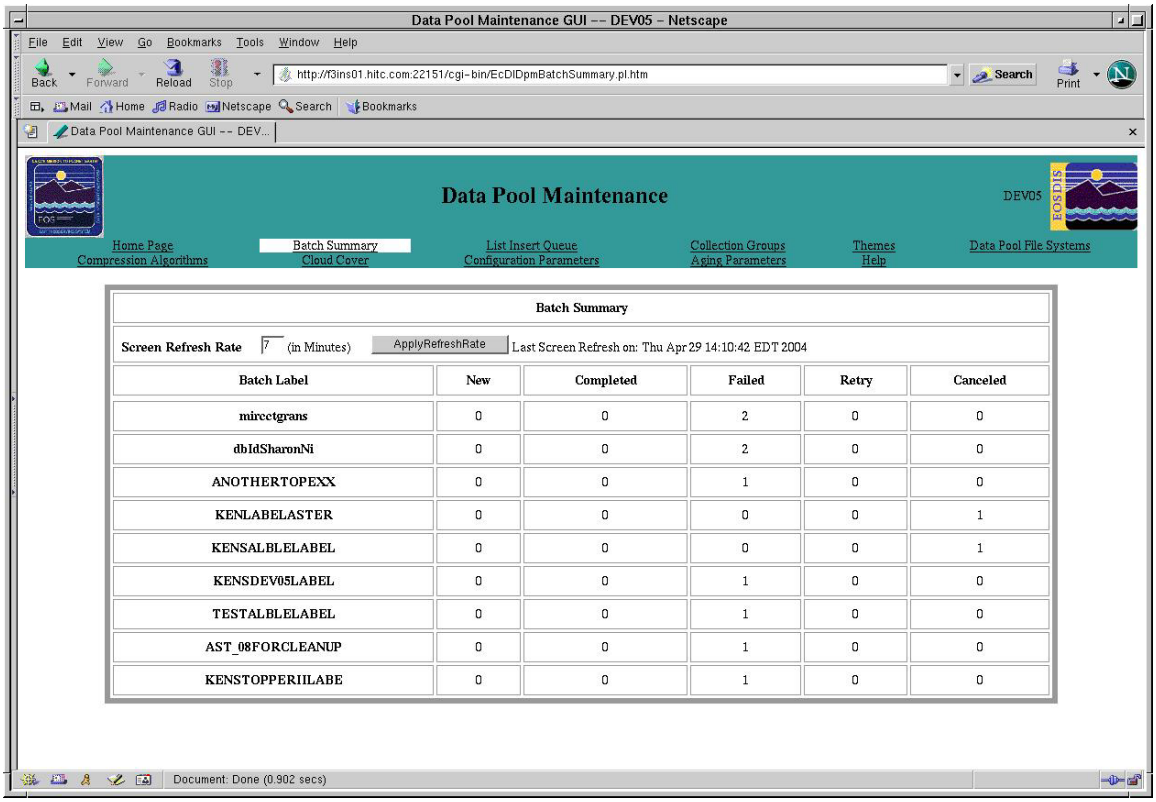

Figure 4.11.14-3. Batch Summary Screen

Table 4.11.14-2. Batch Summary Screen Field Descriptions

Field Name	Data Type	Size	Entry	Description
Batch Label	int	4	System Generated	Name of the batch label
New	int	4	System Generated	Number of batch inserts in NEW state
Completed	int	4	System Generated	Number of batch inserts in COMPLETED state
Failed	int	4	System Generated	Number of batch inserts in FAILED state
Retry	int	4	System Generated	Number of batch inserts in RETRY state
Cancelled	int	4	System Generated	Number of batch inserts in CANCELLED state

4.11.14.1.3 List Insert Queue Tab

The List Insert Queue Screen shown in Figure 4.11.14-4 allows the operator to monitor the Data Pool Inserts that still need to be processed or retried. The operator can cancel Inserts that are in the Insert Queue by clicking on the checkbox adjacent to the Status column. After selecting all desired inserts, click on the **Apply Change** button to initiate changes. The Inserts will be marked as "CANCELED" in the Data Pool database. The List Insert Queue screen will be refreshed with only inserts left to be processed. The DPAD driver will cleanup all canceled inserts at a configured interval. The List Insert Queue Screen can be filtered using the File System Label drop down list, Batch Label drop down list and Status drop down list. Clicking on the **File System** Label drop down list will display all the File System Labels in database. The operator can choose 'ALL' from the **File System** Label drop down list and choose one label from **Batch Label** drop down list and choose 'ALL' from Status drop down list to view all insert statuses for that label in all File Systems. The operator can also narrow down the list by choosing one batch label from the **Batch Labels** drop down list , a specific status from the **Status** drop down list and a specific file system from the **File System** Label drop down list. After selecting the filter options, click on the **Apply Filter** button to display a filtered list. The XML file and path name for a Non-ECS granule insert action can be viewed by clicking on "NONECS" from the Data Source column. XML file path is displayed in Figure 4.11.14-5. The content of the XML file can be viewed by clicking on the file path. This will display the text of the file as shown in Figure 4.11.14-6.

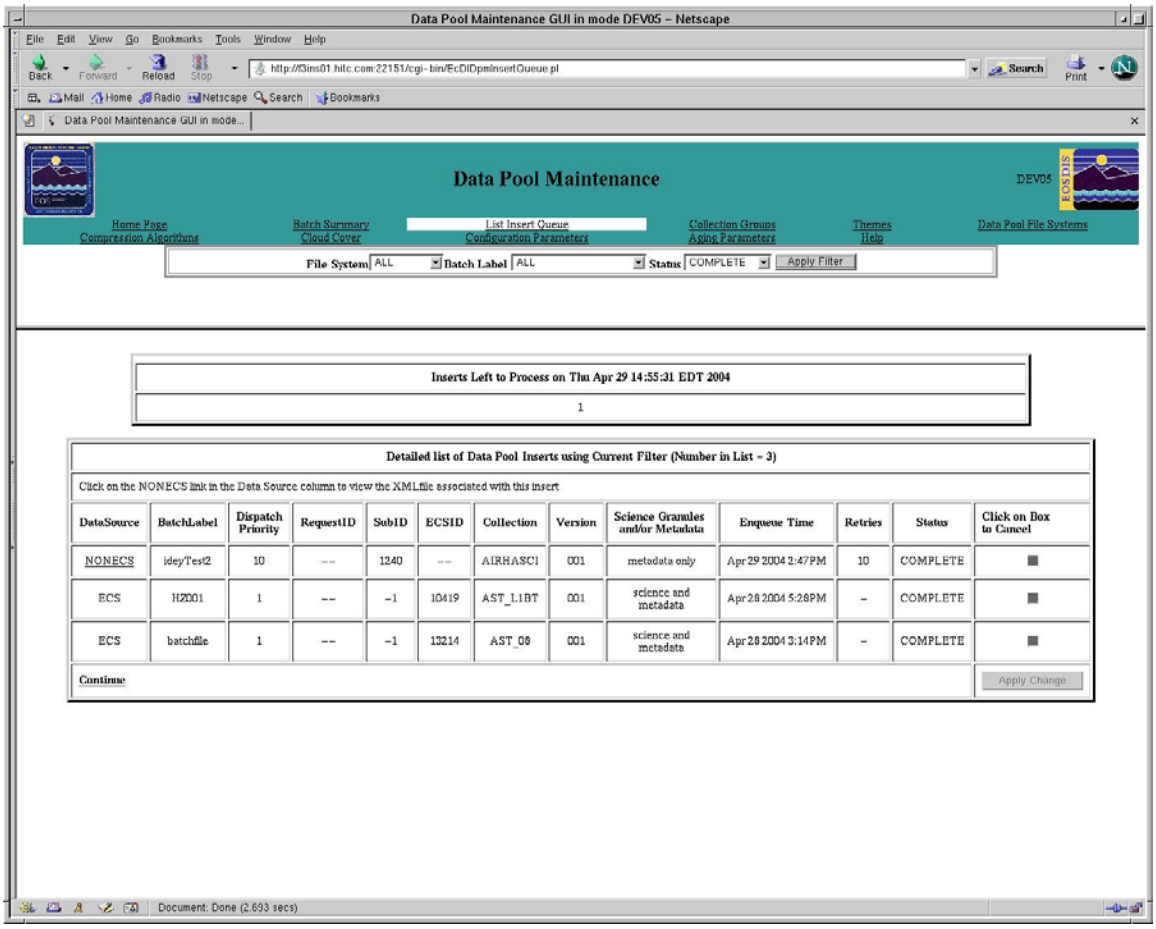

Figure 4.11.14-4. List Insert Queue Screen

Table 4.11.14-3. List Insert Queue Screen Field Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
Data Source	char	6	Required	To describe the source of the data whether ECS or NONECS.
Batch Label	char	20	System Generated	Name of batch
Dispatch Priority	int	4	System Generated	Number of priority by which requests will be processed
RequestID	char	10	System Generated	Request ID of the order
SubID	char	10	System Generated	Submission ID number

Table 4.11.14-3. List Insert Queue Screen Field Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
ESCID	char	10	System Generated	ECS ID number
Collection Version	int	4	System Generated	Version number of collection.
Science Granules and/or Metadata	char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Enqueue Time	char	10	System Generated	Time in queue
Retries	int	4	System Generated	Number of retries
Status	char	10	System Generated	Status of the input process
Click on Box to Cancel	checkbox	1	Optional	Select when cancellation of request is needed

Note: This screen depicts the total number of Data Pool Inserts left to process and retry. It also displays a detailed list of Data Pool Inserts using the current filter and total number of rows in the database. Default filter is set to ignore for Batch Label and NEW/RETRY for Status. Full capability users can cancel an insert.

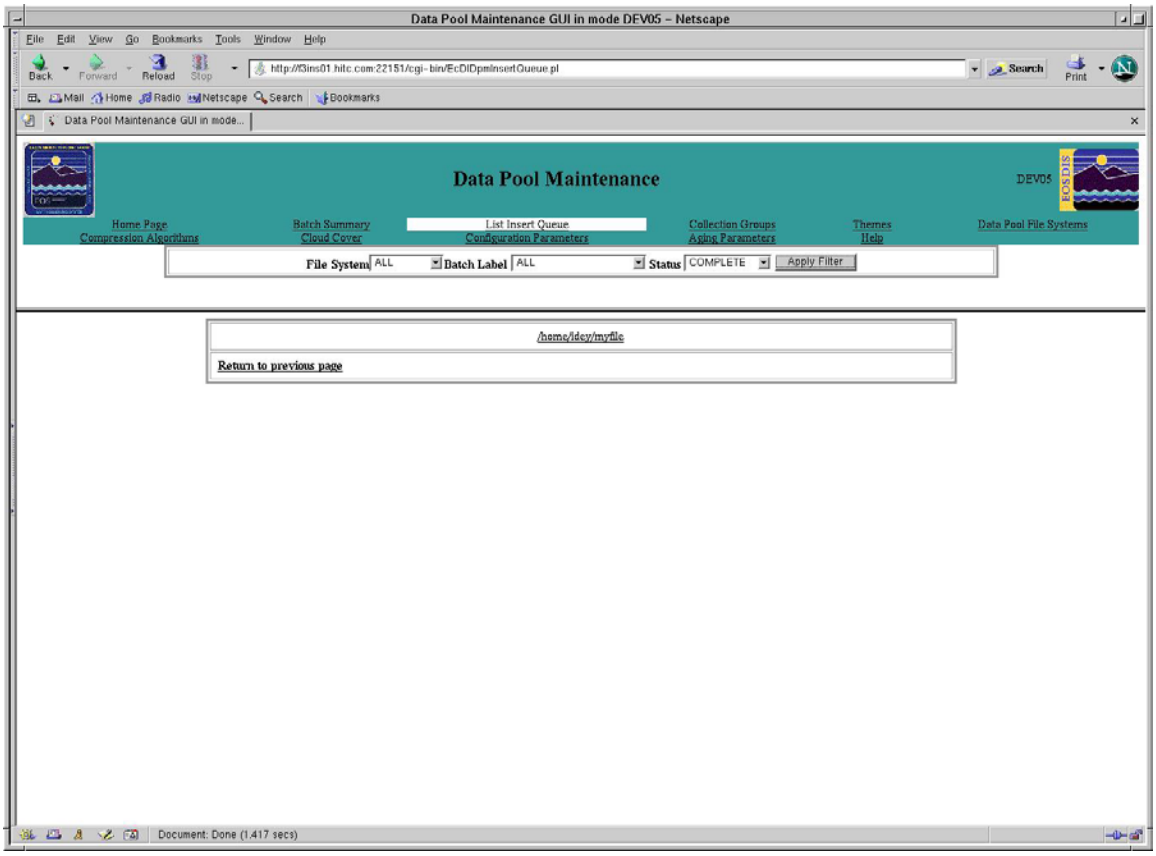

Figure 4.11.14-5. List Insert Queue Screen - Absolute xml File Path. This Screen Depicts the Absolute XML File Path for Non-ECS Data Pool Inserts.

Note: Limited capability users cannot cancel any inserts.

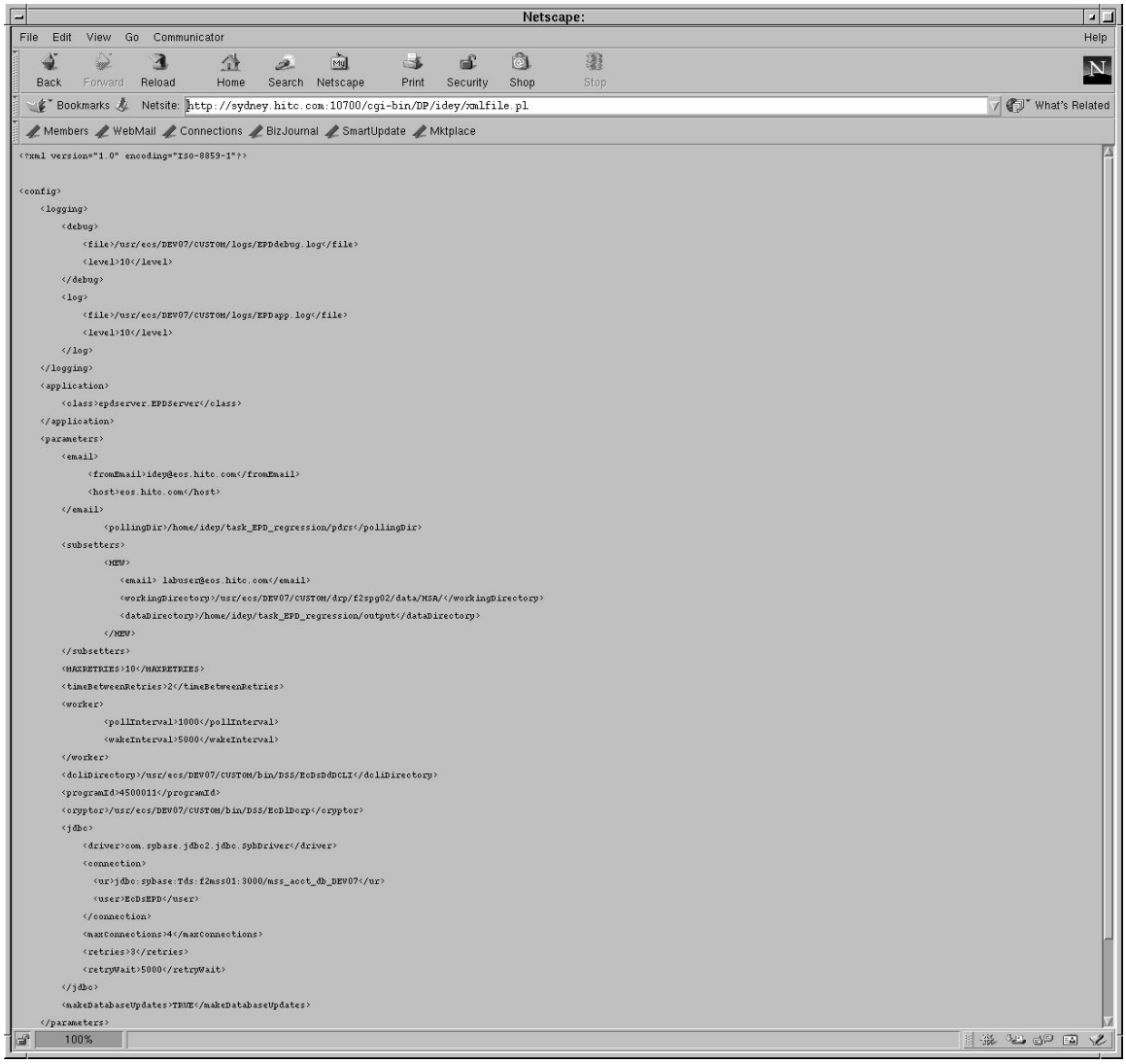

Figure 4.11.14-6. List Insert Queue Screen - XML File Content

4.11.14.1.4 Configuration Parameters Tab

The Configuration Parameters Screen shown in Figure 4.11.14-7 allows all operators to display the current values for the Data Pool Configuration Parameters. Full-capability operators can adjust the values for the parameters by entering new values in the input box. After making all changes, click on the **Click on Box to Modify Parameter** checkbox adjacent to the configuration parameters. Click on the **Apply Change** button to initiate the changes. See Table 4.11.14-4 for a description of the configuration parameters.

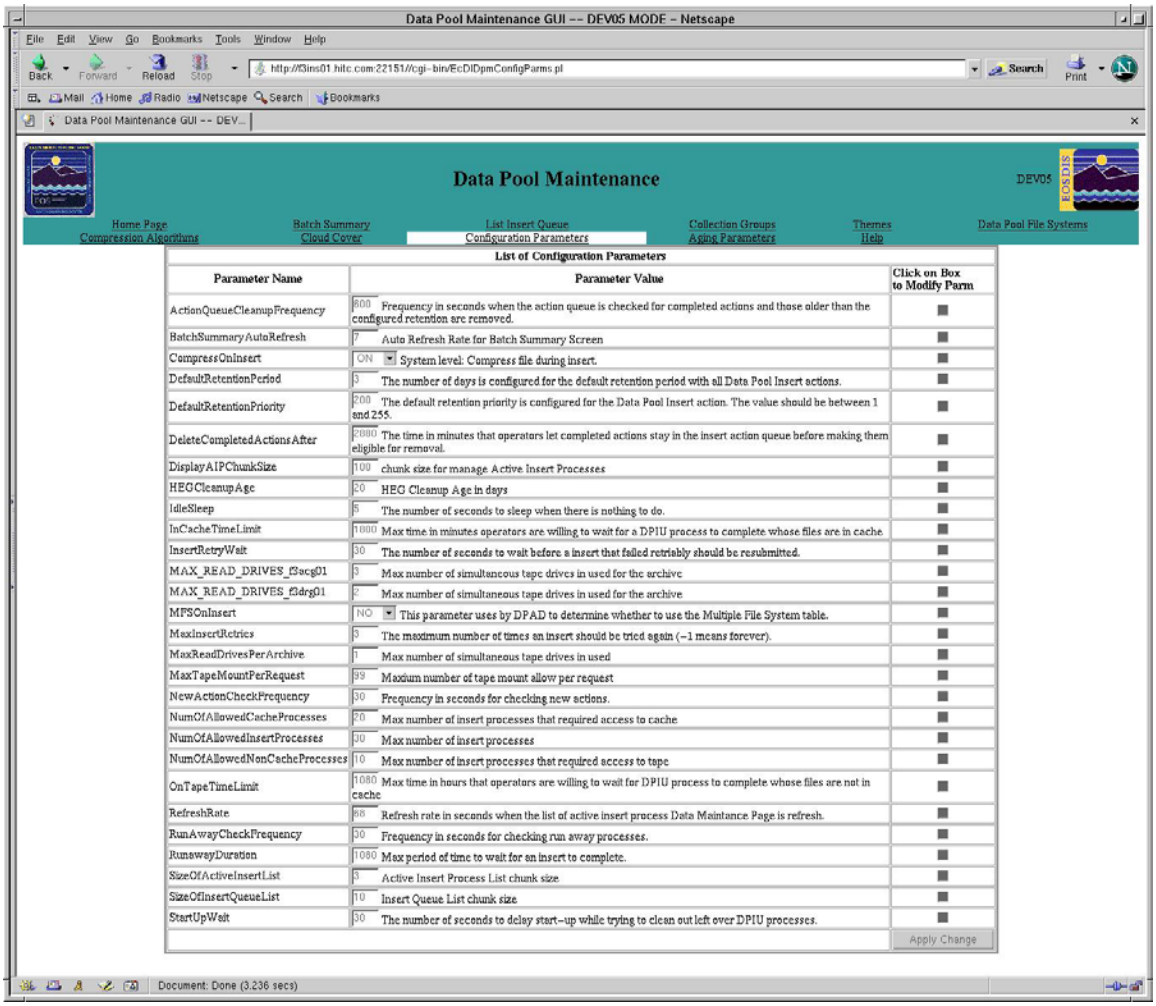

Figure 4.11.14-7. Configuration Parameters Screen. This Screen Depicts the Data Pool Configuration Parameters. The Full Capacity Operator Can Update the Parameters.

Note: Limited Capability users cannot update any parameters. Check boxes and button are non clickable

Table 4.11.14-4. Manage Configuration Parameters Field Description (1 of 3)

Field Name	Data Type	Size	Entry	Description
ActionQueueCleanUpFrequency	Integer	4	Optional	Frequency in seconds when the action queue is checked for completed actions and those older than the configured retention are removed.
BatchSummaryAutoRefresh	Integer	4	Optional	The frequency in minutes when the batch summary front is refreshed.
CompressOnInsert	Char	1	Optional	Turns compression **ON** or **OFF**. Actual value set to Y(ON) / N(OFF). Default is N (OFF).
DefaultRetentionPeriod	Integer	4	Optional	The default retention period in days for all Data Pool Insert Actions.
DefaultRetentionPriority	Integer	4	Optional	The default retention priority for all Data Pool Insert actions. The valid range is 1 – 255.
DeleteCompleteActionsAfter	Integer	4	Optional	The time in minutes that operators let completed actions stay in the insert action queue before making them eligible for removal. This is intended to provide the operator with some ability to check on past actions. The time period should not be configured too long.
DisplayAIPChunkSize	Integer	4	Optional	Number of rows return per chunk for the Active Insert Processes List
HEGCleanupAge	Integer	4	Optional	HEG cleanup age in days
IdleSleep	Integer	4	Optional	The number of seconds when there is nothing to do.
InCacheTimeLimit	Integer	4	Optional	The max time in minutes that operators are willing to wait for a DPIU process to complete whose files are in cache. After the time, DPAD kills the process and retries the action.
InsertRetryWait	Integer	4	Optional	The number of seconds to wait before an insert that failed should be resubmitted.

Table 4.11.14-4. Manage Configuration Parameters Field Description (2 of 3)

Field Name	Data Type	Size	Entry	Description
MFSOnInsert	Char	1	Optional	Availability of multiple file system on insert. Actual value set to Y(YES) / N(NO). Default is N (NO).
MaxInsertRetries	Integer	4	Optional	The maximum number of times an insert should be tried again (-1 means forever).
MaxReadDrivesPerArchive	Integer	4	Optional	Maximum numbers of simultaneous tape drives in used.
MaxTapeMountPerRequest	Integer	4	Optional	Maximum number of tape mount allow per request.
NewActionCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for new actions. DPAD always checks if we are out of actions that can be dispatched, so unless getting things queued up in memory is urgent, this could be a time interval of minutes.
NumOfAllowedCacheProcesses	Integer	4	Optional	The maximum number of insert processes that require AMASS access to cache.
NumOfAllowedInsertProcesses	Integer	4	Optional	The maximum number of insert processes running at any time.
NumOfAllowedNonCacheProcesses	Integer	4	Optional	The maximum number of insert processes that require AMASS access to tape.
OnTapeTimeLimit	Integer	4	Optional	The maximum time in hours operators are willing to wait for a DPIU process to complete whose files are not in cache. After that time, DPAD kills the process and retries the action.
RefreshRate	Integer	4	Optional	The DPM Home Page refresh rate in seconds.
RunAwayCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for runaway processes. Recommend not making it much smaller than InCacheTimeLimit.
SizeOfActiveInsertList	Integer	4	Optional	Active Insert Process List chunk size.

Table 4.11.14-4. Manage Configuration Parameters Field Description (3 of 3)

Field Name	Data Type	Size	Entry	Description
SizeOfInsertQueueList	Integer	4	Optional	The number of Data Pool Insert Queue entries that can be displayed at any one time by the DPM GUI.
StartUpWait	Integer	4	Optional	The number of seconds to delay start-up while trying to clean out left over DPIU processes.

4.11.14.1.5 Collection Groups Tab

The Collection Groups Screen shown in Figure 4.11.14-8 allows the operator to view collection groups in the Data Pool database and navigate to the functions described in the following sections.

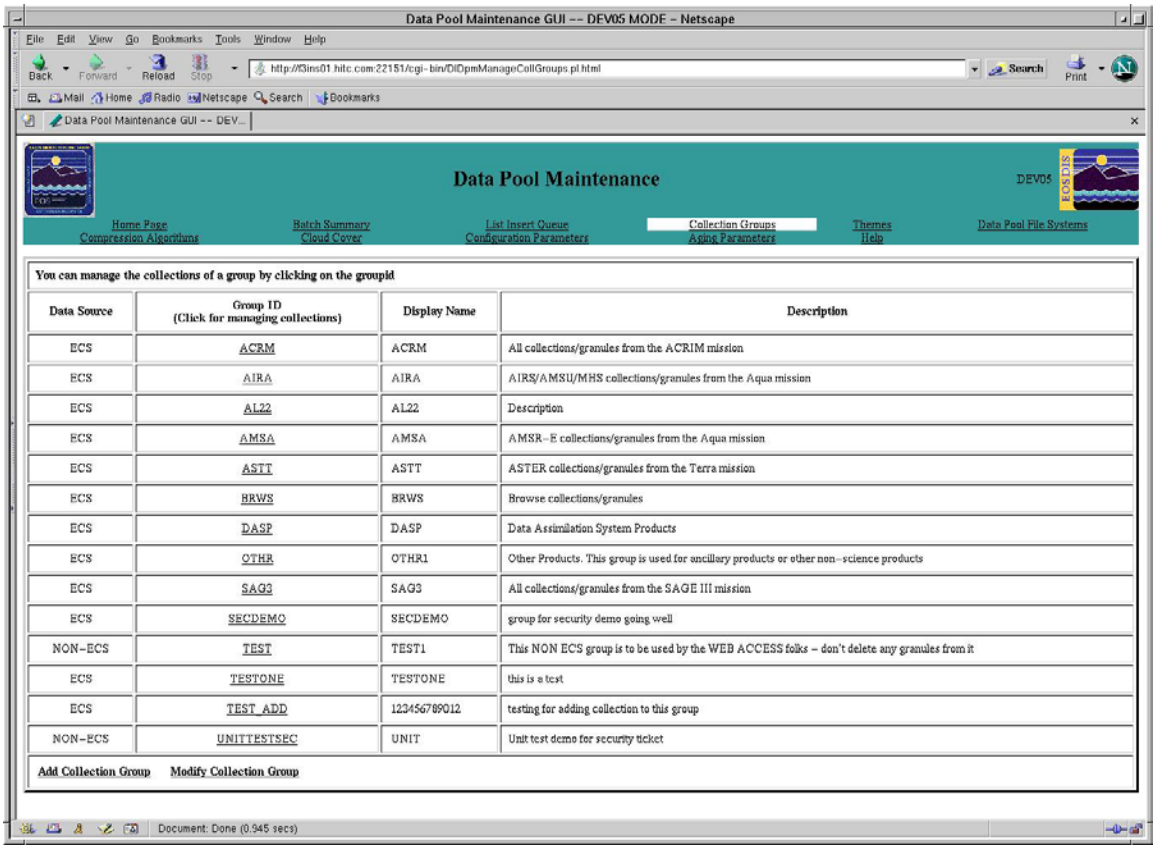

Figure 4.11.14-8. Collection Groups Screen Currently in the Data Pool

Table 4.11.14-5. Collection Group Field Descriptions

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Character	12	Optional	A twelve letter identifier of the display name (if left blank defaults to Group ID). (possible characters are [A-Z],[0-9], underscore or blank).
Description	Character	255	Required	A description for the collection group. It is scrollable up to 255 characters.

The **Add Collection Group** link will allow the user to add a new collection to the collection group and the **Modify Collection Group** link allows any changes to be made to the collection group.

Note: Limited capability users cannot click 'Add Collection Group' or 'Modify Collection Group' links.

4.11.14.1.5.1 Add New Collection Group

The full-capability operator can add a new ECS or Non-ECS collection group by clicking on the **Add Collection Group** link shown in Figure 4.11.14-8. This link will take the operator to the screen shown in Figure 4.11.14-9. To create a new group, the operator is required to enter the Group ID and Description, the Display Name is optional, and will default to the Group ID if nothing is entered. The Display Name is used for Web Drill Down. After entering the new collection group, click on the **Apply Change** button. The new collection group will be added to the Data Pool database and the List of Collection Groups screen will be refreshed. See Table 4.11.14-6 for Add Collection Group parameters.

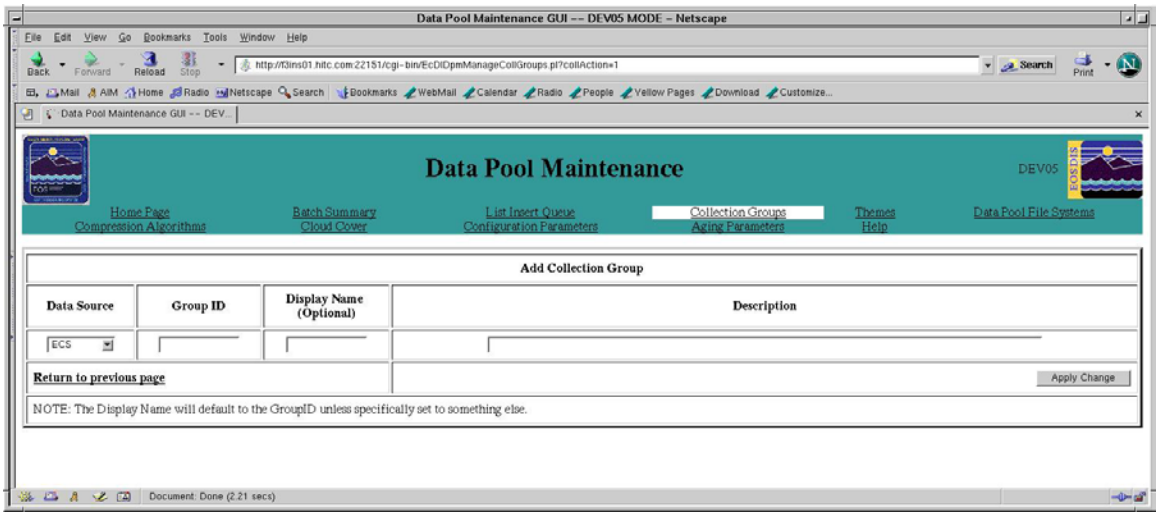

Figure 4.11.14-9. Add Collection Group Screen

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-6. Add Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Character	12	Optional	A twelve letter identifier of the display name (if left blank defaults to Group ID). (possible characters are [A-Z],[0-9], underscore or blank).
Description	Character	255	Required	A description for the collection group. It is scrollable up to 255 characters.

4.11.14.1.5.2 Modify Collection Group Description

The full-capability operator can modify the description and display name for a collection group by clicking on the **Modify Collection Group** link shown in Figure 4.11.14-8. This link will take the operator to the screen shown in Figure 4.11.14-10. The operator can modify the description and display name for a collection group. After making a change, click on the **Check Box To Modify** checkbox, adjacent to the collection group description. After making all changes, click on the **Apply Change** button. The changes will be applied to the Data Pool database and the **List of Collection Groups** screen will be refreshed. See Table 4.11.14-7 for a description of the Modify Collection Group parameters.

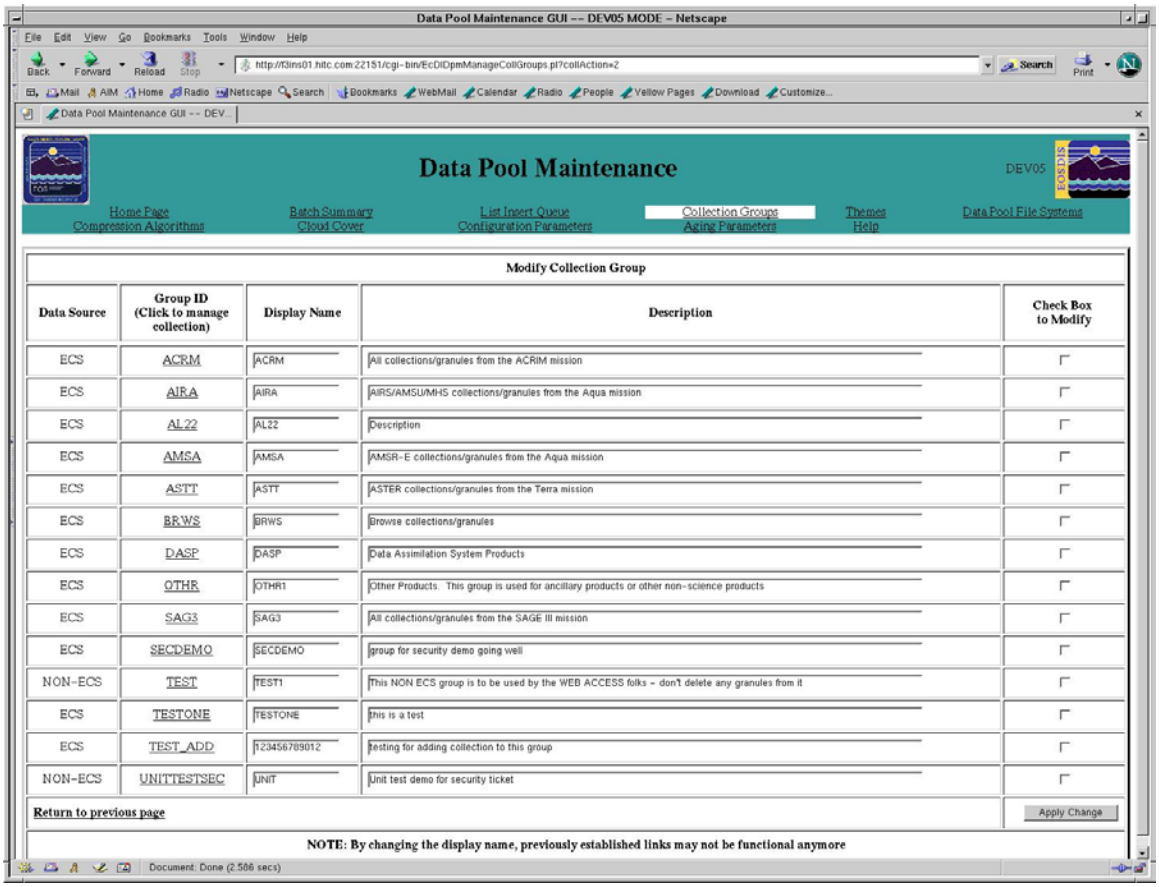

Figure 4.11.14-10. Modify Collection Group Screen (This Screen is Called from Figure 4.11.14-8 and Allows Full Capacity Operator to Modify the Collection Group).

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-7. Modify Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Char	12	Optional	Display name for the collection group.
Description	Char	100	Optional	A description for the collection group.

4.11.14.1.5.3 View Collections

The operator can view the collections associated with a collection group by clicking on the **GroupId** link shown in Figure 4.11.14-8. This link will take the operator to the Collections Associated with an ECS and NONECS Collection Group screen shown in Figure 4.11.14-11. **File System** l indicates a particular Data Pool file system. The default is to show all the collections from all Data Pool file system for a group. A drop down list will provide the operator the labels of all available file systems. The operator can use this list to filter the display of collections. The **Data Source** and **Group ID** are presented at the top of the table as a reference for which group is currently being viewed.

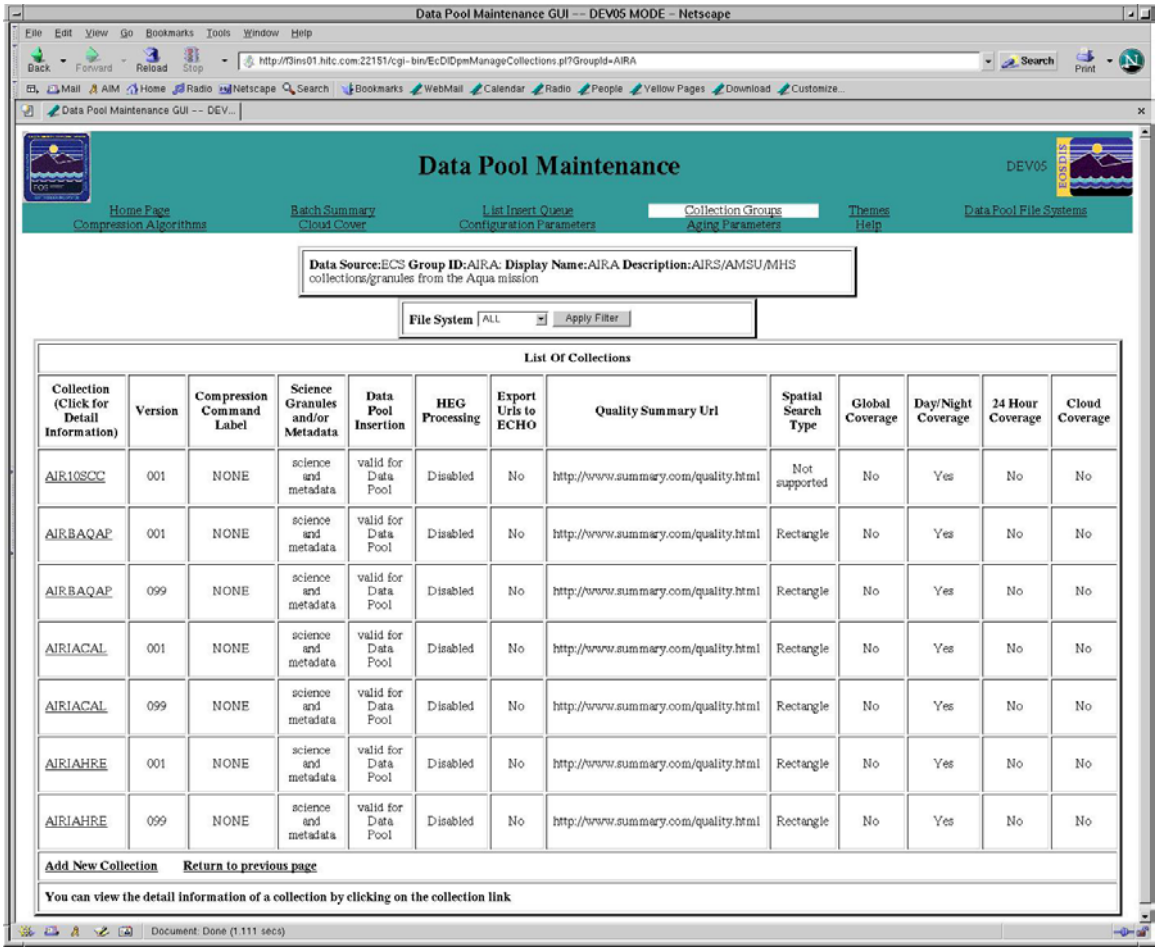

Figure 4.11.14-11. Collections Associated with an ECS Collection Group

Note: Limited Capability users cannot click 'Add Collection' link.

Table 4.11.14-8. Modify Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Char	12	Optional	Display name for the collection group.
Description	Char	100	Optional	A description for the collection group.
Collection	Char	8	System Generated	Name of a collection.
Version	Integer	1	System Generated	Version number of collection.
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
HEG Processing	Char	n/a	System Generated	Indicates if HEG processing is available or not
Export Urls to ECHO	Char	n/a	System Generated	Indicates in URL need to be exported or not
Quality Summary Url	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Seach Type	Char	n/a	System Generated	Indicates if Spatial Search is required/needed.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.
Cloud Coverage	Char	1	Optional	Indicate if cloud coverage is needed.

The **Add New Collection** link will allow the user to add a new collection to the collection group and the **Return to previous page** link will the take the user to the page prior.

4.11.14.1.5.4 View Collection Description

The operator can view the detail description for a collection by clicking on the Collection link shown in Figure 4.11.14-11. This link will take the operator to the Description of a Collection screen shown in Figure 4.11.14-12. This page will give detail information about an ECS or Non-ECS collection. Modify Collection will display the modify collection page for full capability

operators. The operator can return to the previous page by clicking on the 'Return to previous page' link.

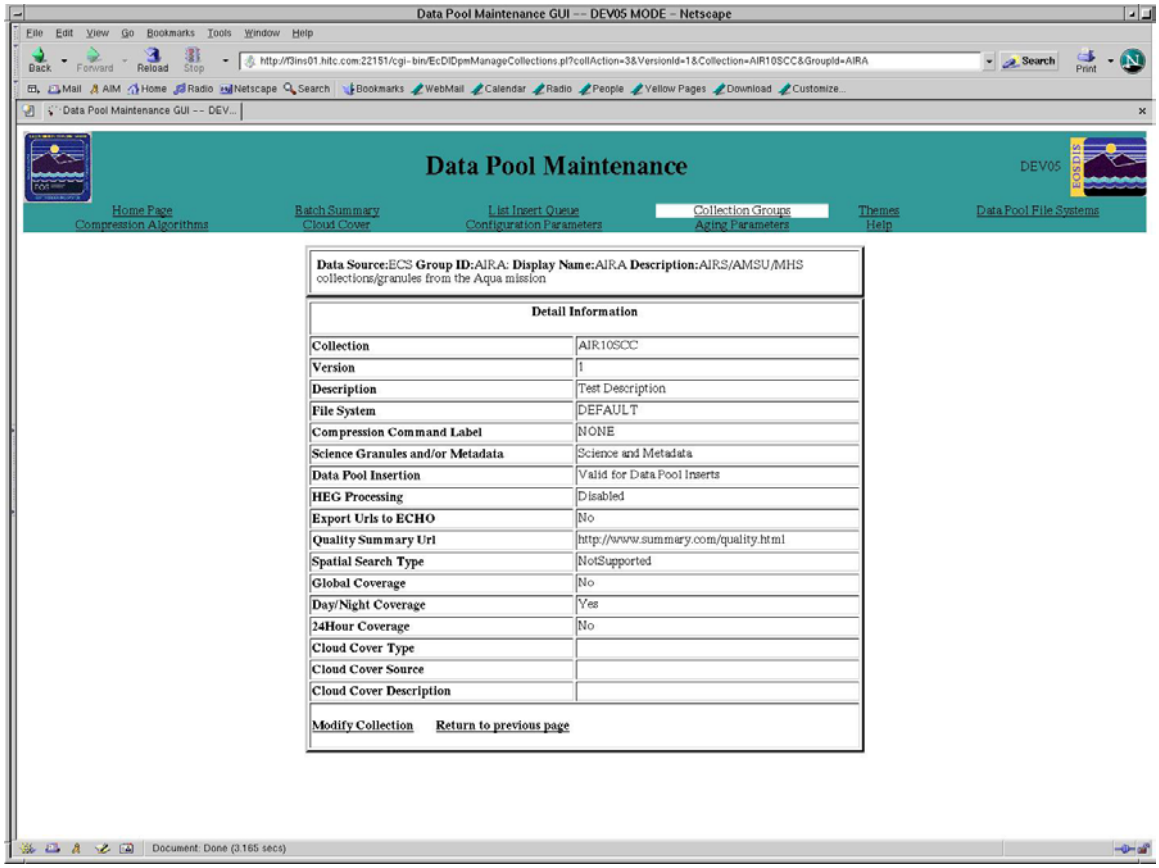

Figure 4.11.14-12. Description of a Collection

Field descriptions for the screen can be found in Table 4.11.14-8.

Note: Limited Capability users cannot click 'Modify Collection' link.

4.11.14.1.5.5 Add New Collection to Existing Collection Group

The full-capability operator can add an ECS collection by clicking on the **Add New Collection** link shown in Figure 4.11.14-11. An ECS collection can be added to an ECS Collection Group and a Non-ECS collection can be added to a Non-ECS group. The procedure for adding collections for ECS and Non-ECS groups are different. The operator can add a collection by clicking on the **Add New Collection** link in Figure 4.11.14-11. For ECS Group this link will take the operator to Figure 4.11.14-13, which displays a list of collections with its version number and description that are not in the Data Pool database. The operator can add any one of these collections to the group by clicking on the collection link. This will bring up the Add Collection page for an ECS Collection shown in Figure 4.11.14-14. The operator can add a Non-ECS collection to a Non-ECS group by clicking on an **Add New Collection** link on a Non-ECS

Collection Group Screen. This action will bring up Add Collection screen for a Non-ECS Collection shown in Figure 4.11.14-16.

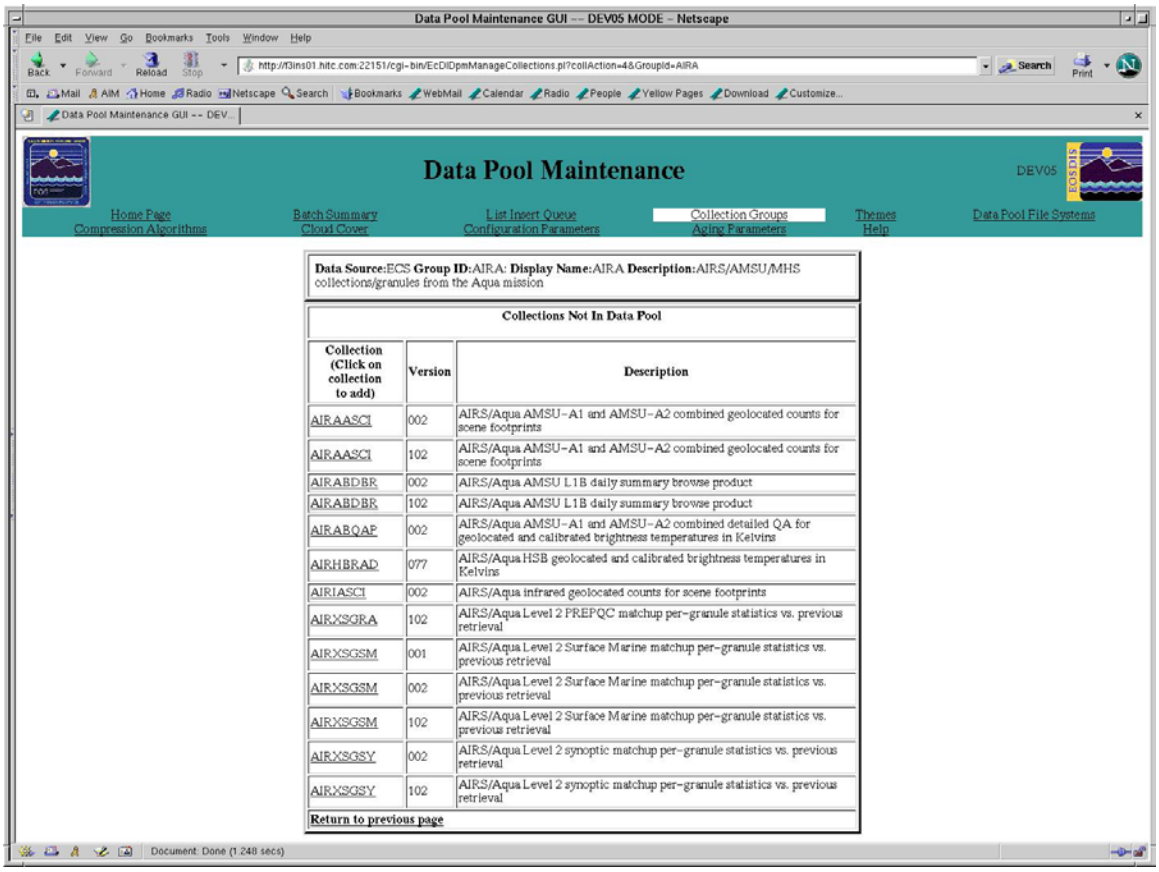

Figure 4.11.14-13. List of Collection Not in Data Pool

Note: This page is not accessible by Limited Capability users.

The full-capability operator can arrive at the Add ECS Collection page shown in Figure 4.11.14-14 by clicking on a collection link shown in Figure 4.11.14-11. Collection name, Version and Descriptions are predefined and cannot be changed. The operator can associate a collection with a File System label and Compression Command Label. Defaults for these two items are nulls. The Science Granules and /or Metadata row indicates if the collection is valid for science granule and metadata insertion or metadata only. The default value is science and metadata insertion. The operator can set the value to Metadata Only to indicate Metadata insertion only. The Data Pool Insertion indicates if the collection is eligible for insertion into Data Pool. The default value is invalid for data pool. The operator must set the value to valid for data pool to make the collection eligible for insertion into Data Pool. The Spatial Search Type indicates the types of search criteria used for Spatial searches such as GPolygon, Rectangle, or Orbit. The operator can also set the global coverage flag to on/off. Default value for this flag is on. There are two more flag has on/off values can be set for a collection. Default for Day/Night flag is on

and 24 hour flag is off. After creating the Quality Summary web page, the operators will enter the URL in the text area reserved for quality summary URL and thus associate the URL for the Quality Summary web page. A collection can be associated with a cloud cover attribute and its type. The operator can configure that in this page. There is also a text area to enter the cloud cover description. Defaults for quality summary, cloud cover attribute, cloud cover type and cloud cover description are nulls.

After making necessary selections the operator must press on **Apply Change** button to add the collection.

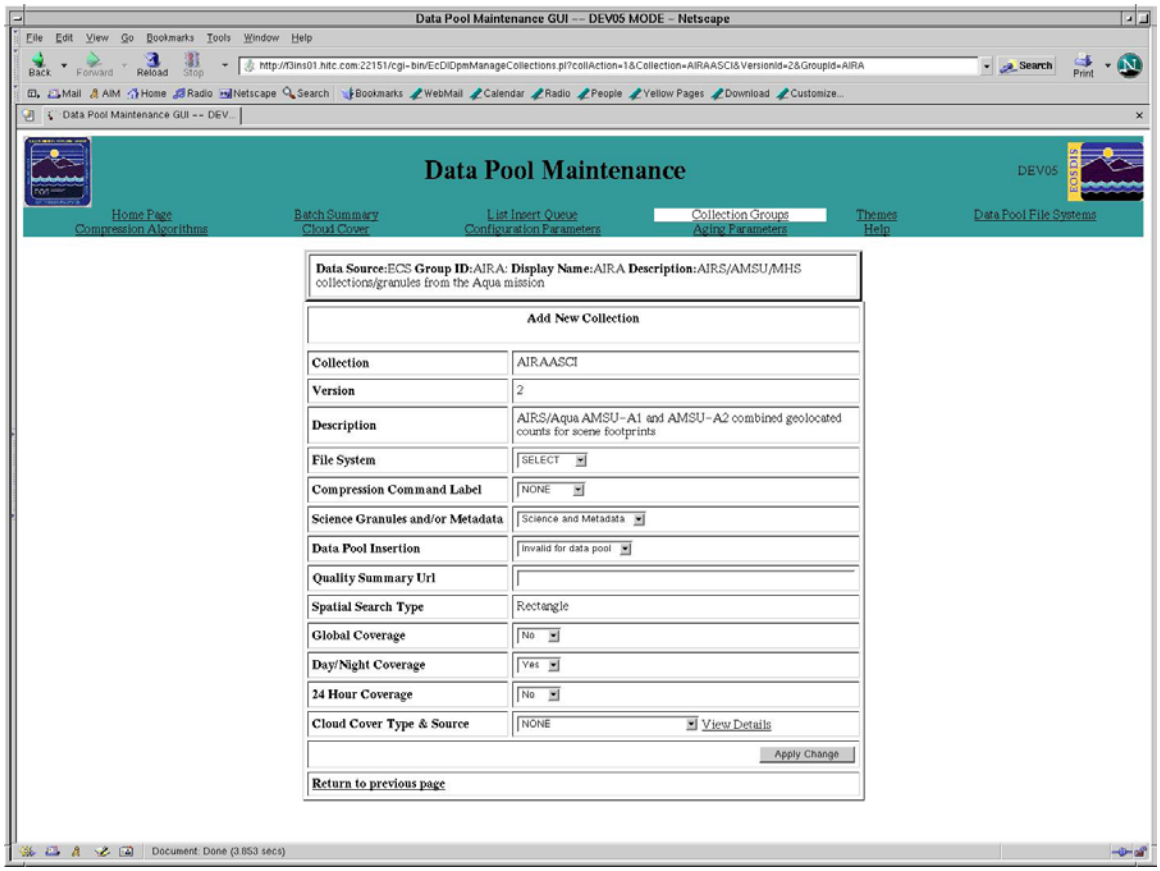

Figure 4.11.14-14. Add ECS Collection Page (This Page is only Accessible by Full Capability Operators).

Table 4.11.14-9. Add ECS Collection

Field Name	Data Type	Size	Entry	Description
Collection	Char	8	System Generated	Name of a collection.
Version	Integer	1	System Generated	Version number of collection.
Description	Char	80	Optional	Description of collection. Scrollable up to 255 characters.
File System	Char	n/a	Optional	File system path
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
Quality Summary URL	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Search Type	Char	n/a	System Generated	Indicates if Spatial Search is required/needed.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.
Cloud Cover Type and Source	Char	n/a	Optional	Source and type name for a cloud cover.

Entries for Cloud Cover attribute and type must be verified against SDSRV database.

An error window as shown in Figure 4.11.14-15 will pop up to indicate that collection cannot be added due to wrong cloud cover information. Click **OK** to dismiss the error window.

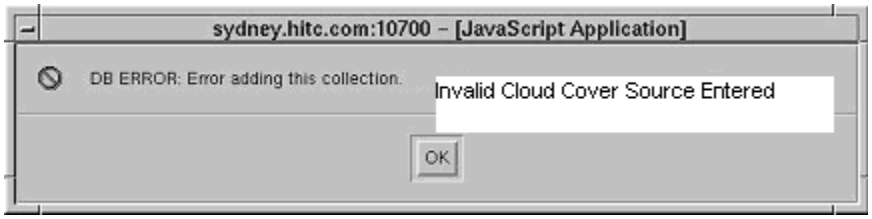

Figure 4.11.14-15. Error Window

The operator can add a Non-ECS collection to a Non-ECS group by clicking on an **Add New Collection** link in a Collections Associated with a Non-ECS Collection Group Screen. This action will bring up Add Collection screen for a Non-ECS Collection shown in Figure 4.11.14-16. The operator needs to enter a Collection name and Version number. These two fields are required. The operator can provide an optional collection Description for the collection. The operator can associate a collection with a File System label and Compression Command Label. Defaults for these two items are nulls. The Science Granules and /or Metadata row indicates if the collection is valid for science granule and metadata insertion or metadata only. The default value is science and metadata insertion. The operator can set the value to Metadata Only to indicate Metadata insertion only. The Data Pool Insertion indicates if the collection is eligible for insertion into Data Pool. The default value is invalid for data pool. The operator must set the value to valid for data pool to make the collection eligible for insertion into Data Pool. NONECS collections can also have the option to configure Spatial Search Type for a collection. Options provided are 'Not supported', 'Rectangle', Gpolygon and 'Orbit'. Default value for Spatial Search Type is 'Not Supported'. The operator can also set the global coverage flag to on/off. Default value for this flag is on. There are two more flag has on/off values can be set for a collection. Default for Day/Night Coverage flag is on and 24-hour coverage flag is off. After creating the Quality Summary web page, the operators will enter the URL in the text area reserved for quality summary URL and thus associate the URL for the Quality Summary web page. A collection can be associated with a Cloud Cover Type and Source attribute. The operator can configure that in this page. There is also a text area to enter the cloud cover description. Defaults for quality summary, cloud cover attribute, cloud cover type and cloud cover description are null. After making necessary selections operator must press on **Apply Change** button to add the collection.

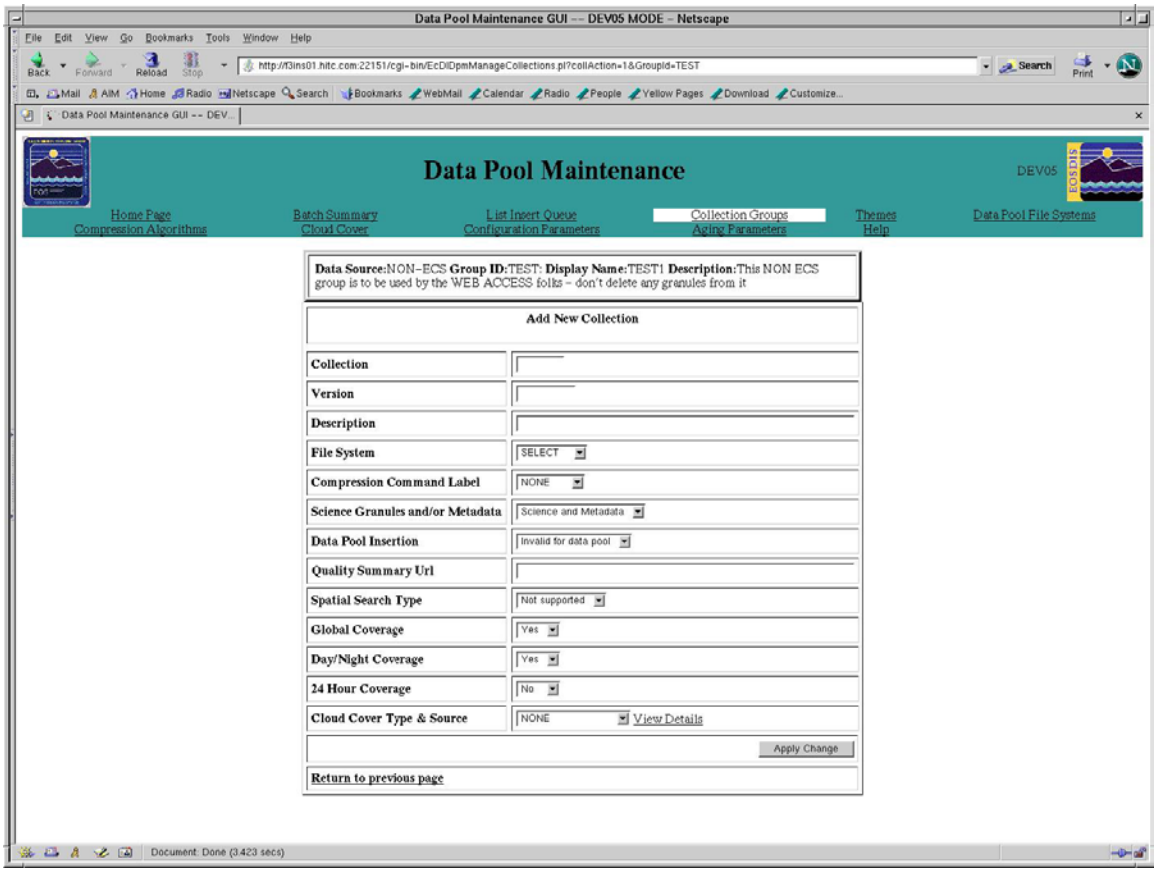

Figure 4.11.14-16. Add Non-ECS Collection Page (This Page is Only Accessible by Full Capability Operators).

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-10. Add Non-ECS Collection

Field Name	Data Type	Size	Entry	Description
Collection	Char	8	Required	Name of a collection.
Version	Integer	1	Required	Version number of collection.
Description	Char	80	Required	Description of collection. Scrollable up to 255 characters.
File System	Char	n/a	Optional	File system path
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
Quality Summary URL	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Search Type	Char	n/a	Optional	Indicates if Spatial Search is required/needed and its type.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.

Entry for Non ECS Collection name is verified against input error. It is also verified against same name and same version ID. An error window, as shown in Figure 4.11.14.17 and Figure 4.11.14.18 will pop up for each case on the Add Collection screen. Click **OK** to dismiss the error window.

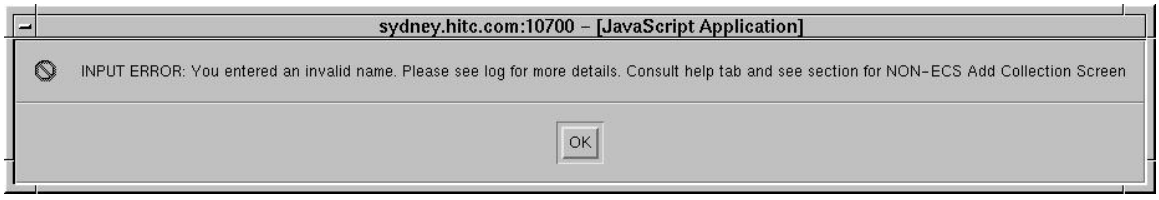

Figure 4.11.14-17. Error Window

Figure 4.11.14-18. Error Window

4.11.14.1.5.6 Modify Existing Collection

The full-capability operator can modify a collection by clicking on the **Modify Collection** link shown in Figure 4.11.14-12 will take the operator to the Modify Collection page. There is one difference between the ECS and NON-ECS modify page. The ECS modify page does not allow the operator to modify a collection's description. The NON-ECS modify page allows the description field to be updated. Figure 4.11.14-19 describes an ECS modify page and Figure 4.11.14-20 describes a NON-ECS modify page.

Both modify pages displays current information and allow operator modifications. After all desired changes are entered, the operator needs to click on the button called **Apply Change.** This action will change the data in database.

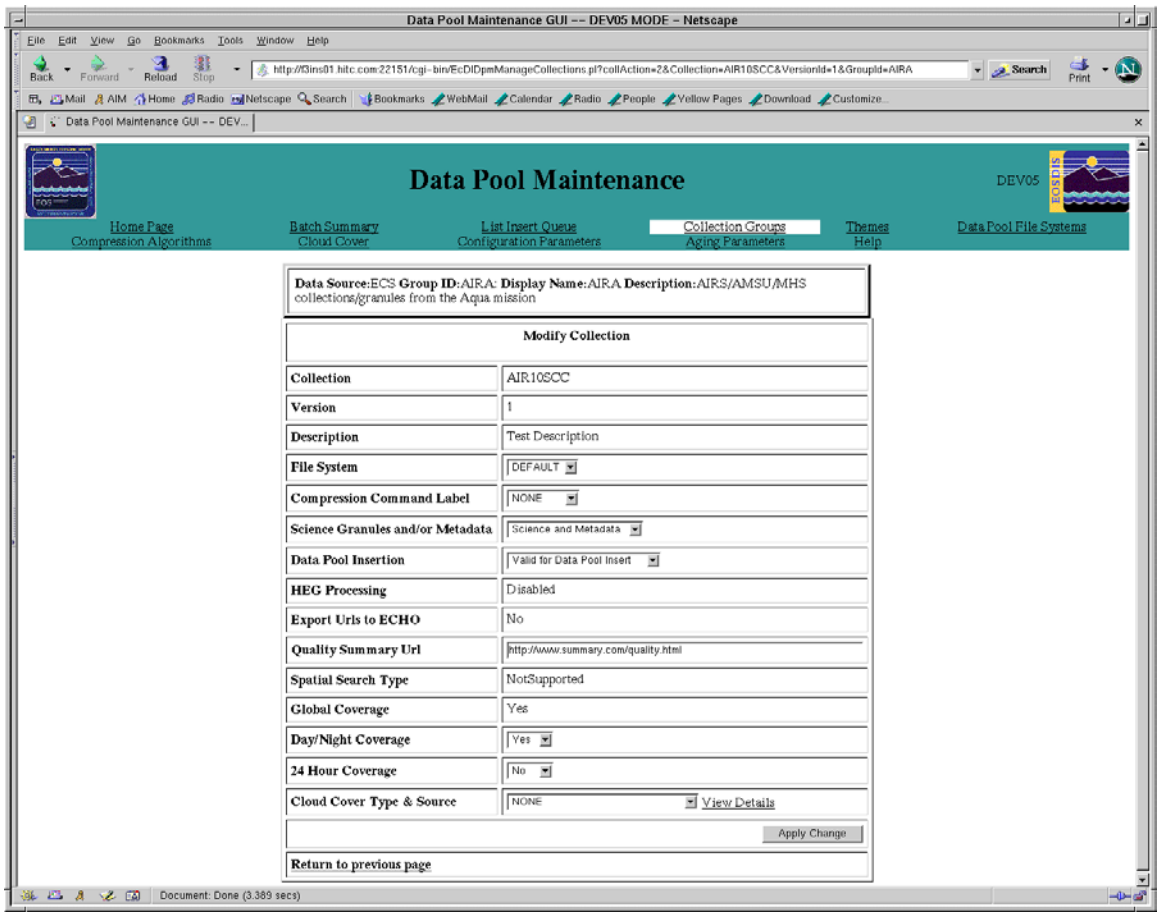

Figure 4.11.14-19. ECS Modify Collection Screen

Note: Limited Capability users cannot use this functionality.

Field descriptions for the screen can be found in Table 4.11.14-8.

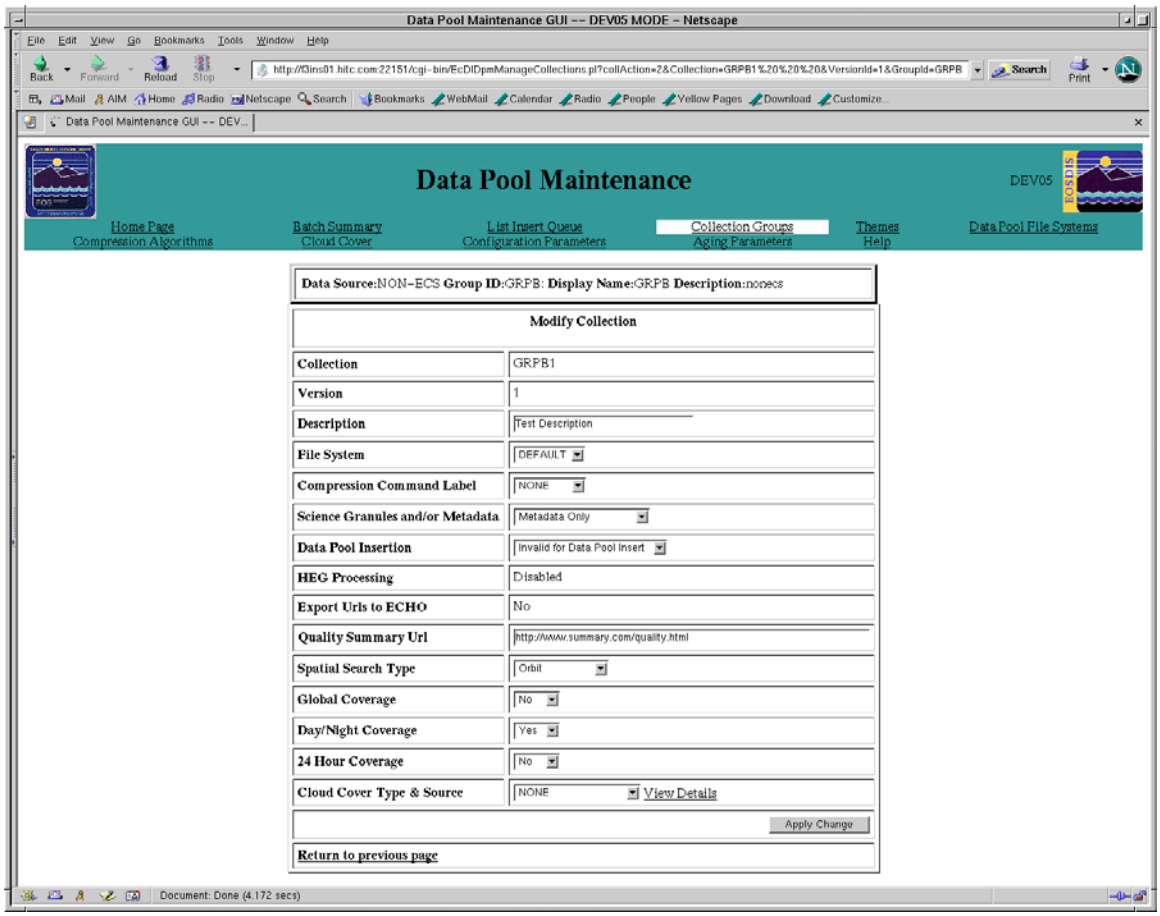

Figure 4.11.14-20. Non-ECS Modify Collections Screen

Field descriptions for the screen can be found in Table 4.11.14-8.

Note: Limited Capability users cannot use this functionality.

4.11.14.1.6 Data Pool File System Tab

Data Pool File System Information screen shown in Figure 4.11.14-21 allows the operator to view a list of file systems and information on Free Space Flag, Availability for insert, and Min Freed Space Amount. From this page the full capability operator can also configure a new file system and modifying an existing one by clicking on the link **Add New File System** and **Modify Data Pool File System Information** link respectively. Clicking on **Add New File System** will take the operator to 'Add New File System' page shown in Figure 4.11.14-22. The operators need to add five fields --- 1) File System Label: A label representing an existing Data Pool file system. 2) Free Space Flag: Value needs to be set is either ON or OFF. If is set to ON that means free space is available. If it is set to OFF then that means free space is not available. 3) Availability for Insert: Value needs to be set is either 'Available' or 'Unavailable'. If the value

is set to ‘Available’ that means file system is available for Data Pool insert. If the value is set to ‘Unavailable’ that means file system is not available for Data Pool insert. 4): Absolute Path: indicates path name to location. 5) Min Freed Space: Need to enter an integer value, which represent megabytes of space. This amount space must remain free in order to make the file system available for insert. Clicking on Modify File System will take the operator to ‘Modify File System Information’ page shown in Figure 4.11.14-23. The operator can change Free Space Flag, Availability for insert flag, and the Min Freed Space Amount in this page. There are check boxes associated with each file system. The operator can change multiple file system at one time by checking the desired file system’s checkboxes and press on **Apply Change** button

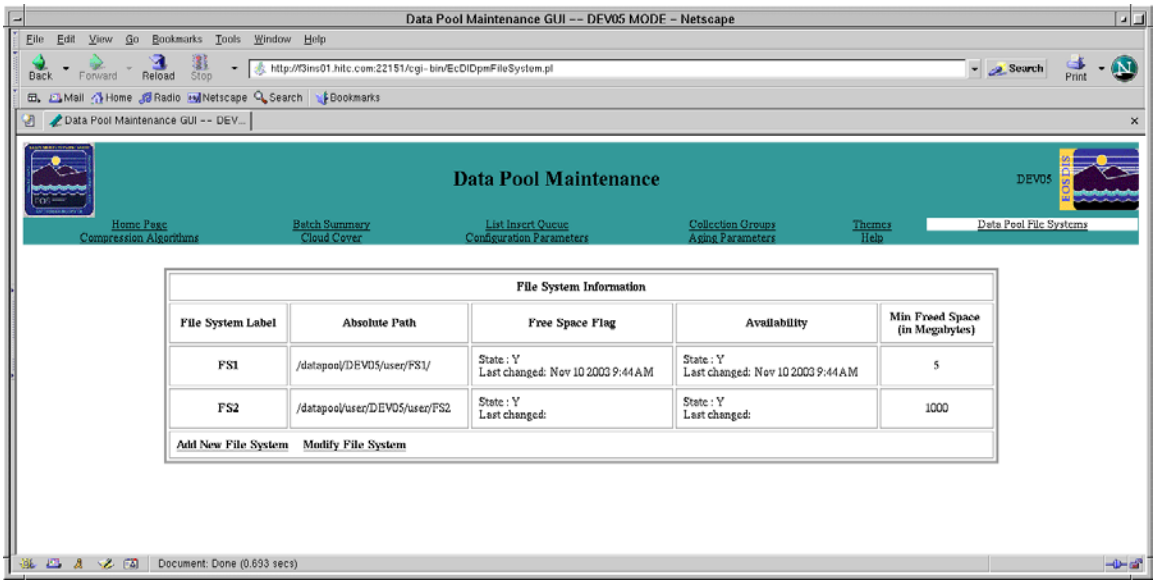

Figure 4.11.14-21. Data Pool File System Information Screen

Field descriptions for the screen can be found in Table 4.11.14-11.

Note: Limited Capability users cannot click ‘Add New File System’ or ‘Modify File System’ links.

Table 4.11.14-11. File System Information Field Description

Field Name	Data Type	Size	Entry	Description
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available

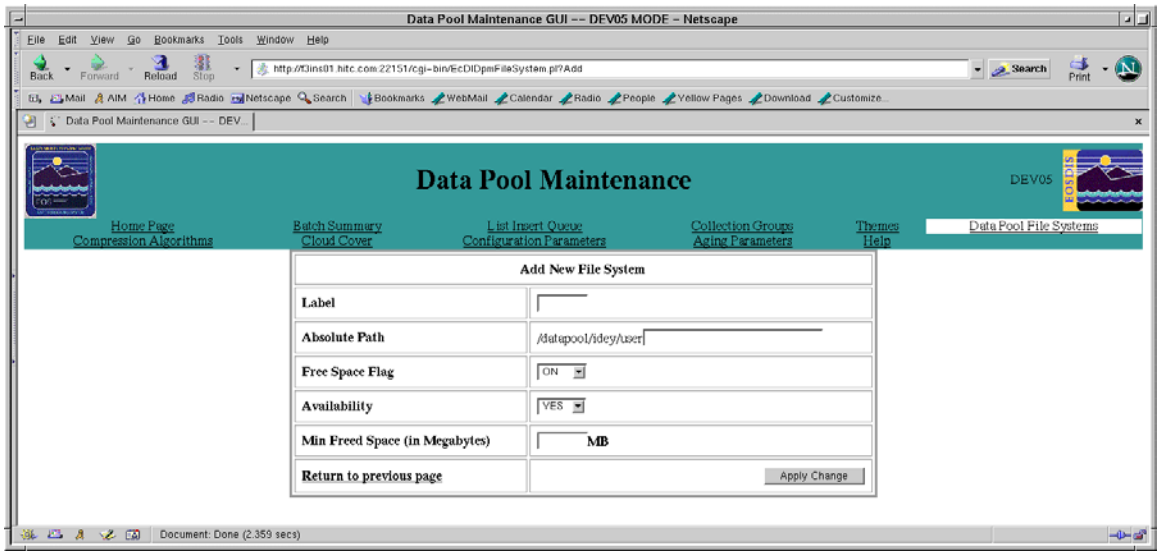

Figure 4.11.14-22. Add New File System screen

Field descriptions for the screen can be found in Table 4.11.14-12.

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-12. Add New File System Field Description

Field Name	Data Type	Size	Entry	Description
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available

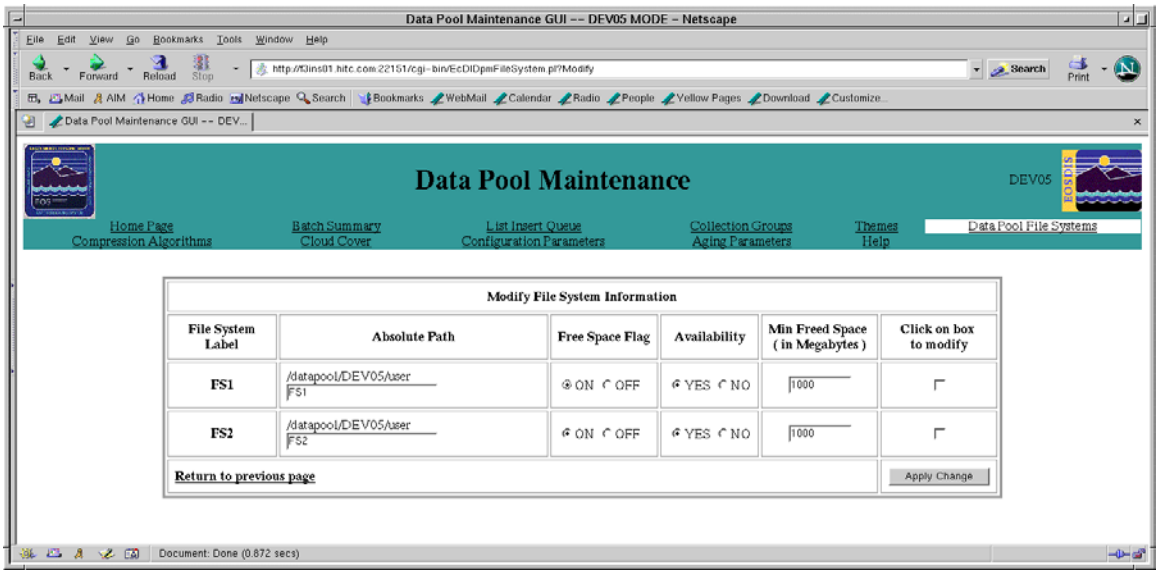

Figure 4.11.14-23. Modify File System Information screen

Field descriptions for the screen can be found in Table 4.11.14-13.

Note: Limited Capability users cannot use this functionality

Table 4.11.14-13. Modify File System Information Field Description

Field Name	Data Type	Size	Entry	Description
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available
Click on box to modify	checkbox	1	Optional	Select when modifications are needed

4.11.14.1.7 Compression Algorithms Tab

The operator can view existing compression algorithms by clicking on the **Compression Algorithm** tab. This tab will take the operator to the View the Compression Algorithms Screen shown in Figure 4.11.14-24. This page displays the *Compression Label*, *File Extension*, *Compression Command*, and the *Decompression Command* for the compression algorithm. The full-capability operator is allowed to add a new compression algorithm using the **Add Compression Algorithm** link, or modify an existing compression algorithm using the **Modify Compression Algorithm** link, or deactivate a compression algorithm from the system using the **Deactivate Compression Algorithm** link as the bottom of the screen.

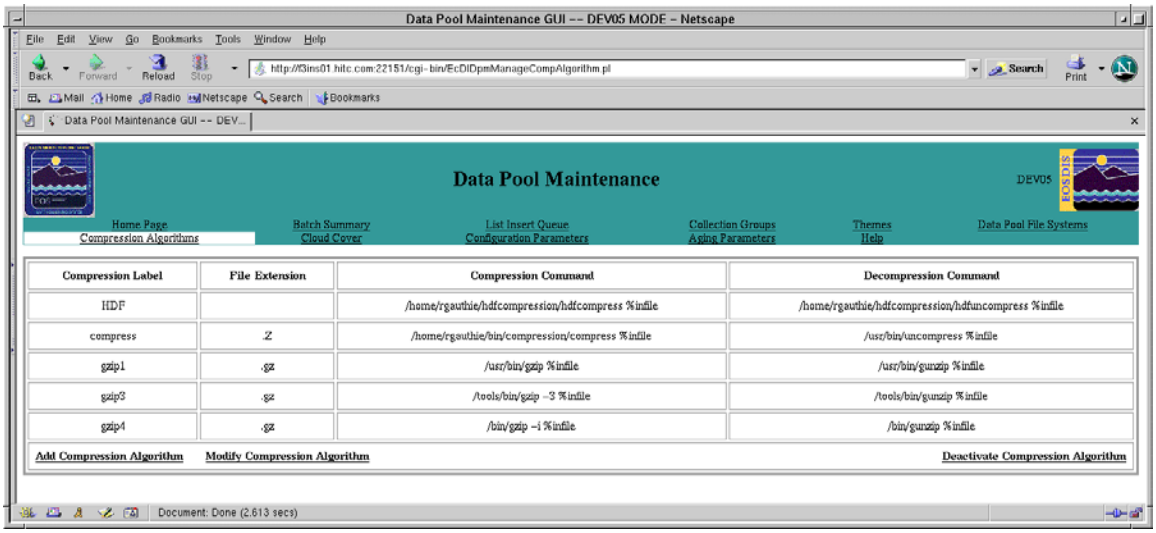

Figure 4.11.14-24. View the Compression Algorithms Screen

Table 4.11.14-14. Compression Algorithms Screen Field Description

Field Name	Data Type	Size	Entry	Description
Compression Label	character	10	Required	Label used to reference compression algorithm
File Extension	character	10	Optional	Default file extension for compression algorithm
Compression Command	character	255	Required	Unix command line which runs the compression algorithm
Decompression Command	character	255	Optional	Unix command line which runs the decompression algorithm

Note: Limited Capability users cannot click 'Add Compression Algorithm' or 'Modify Compression Algorithm' or 'Deactivate Compression Algorithm' links.

4.11.14.1.7.1 Modify Compression Algorithm

The full-capability operator can modify an existing compression algorithm by clicking on the **Modify Compression Algorithm** link from Figure 4.11.14-24. This will take them to Figure 4.11.14-25. The operator can modify any of the fields he/she desires. After making any desired change, click on the Check Box To Modify checkbox adjacent to the Decompression Command text box. After making all desired changes, click on the **Apply Change** button. The changes will be applied to the Data Pool database and the Compression Algorithms screen will be refreshed.

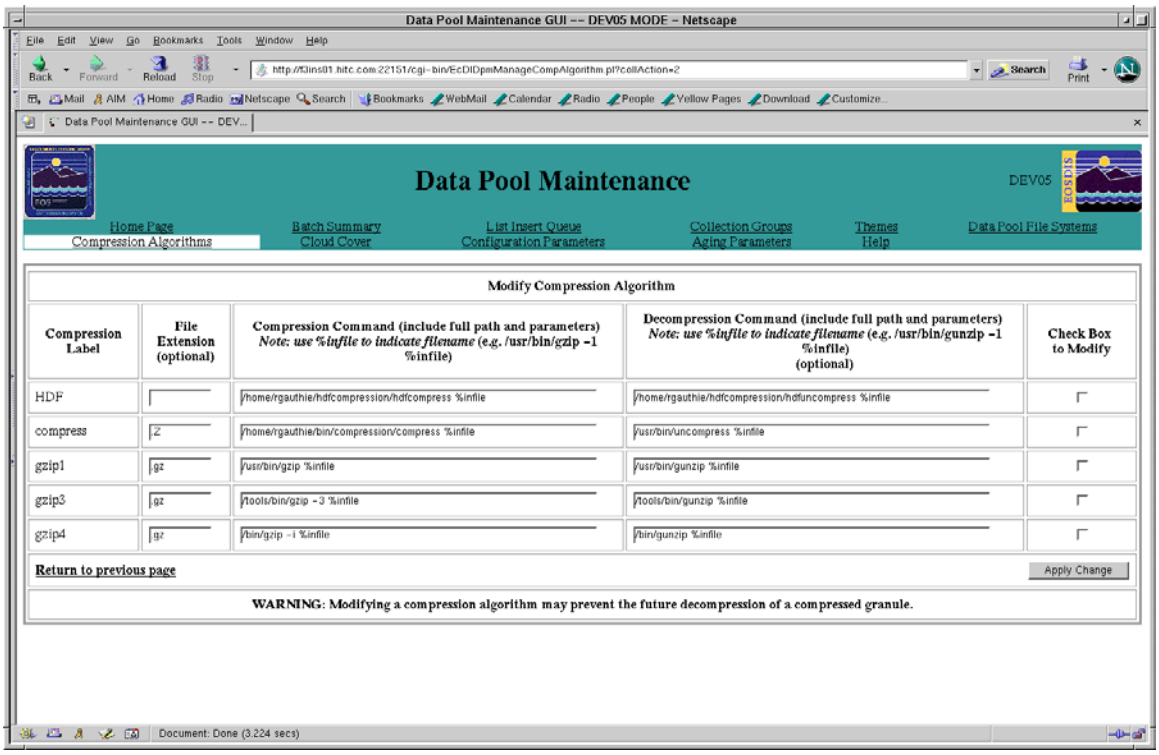

Figure 4.11.14-25. Modify Compression Algorithm screen

Note: Limited Capability users cannot use this functionality

Table 4.11.14-15. Modify Compression Algorithm Field Description

Field Name	Data Type	Size	Entry	Description
Compression Label	character	10	Required	Label used to reference compression algorithm
File Extension	character	10	Optional	Default file extension for compression algorithm
Compression Command	character	255	Required	Unix command line which runs the compression algorithm
Decompression Command	character	255	Optional	Unix command line which runs the decompression algorithm
Check Box to Modify	checkbox	1	Optional	Select when modifications are needed

4.11.14.1.7.2 Add Compression Algorithm

The full-capability operator can add a new compression algorithm by clicking on the **Add Compression Algorithm** link from Figure 4.11.14-24. This link will take the operator to the screen shown in Figure 4.11.14-26. After entering the new compression algorithm, click on the

Add Algorithm button. Although the decompression command is optional, if it is not entered, a warning will be displayed to verify the operator intentionally left it blank. The new compression algorithm will be added to the Data Pool database and the Compression Algorithms screen will be refreshed.

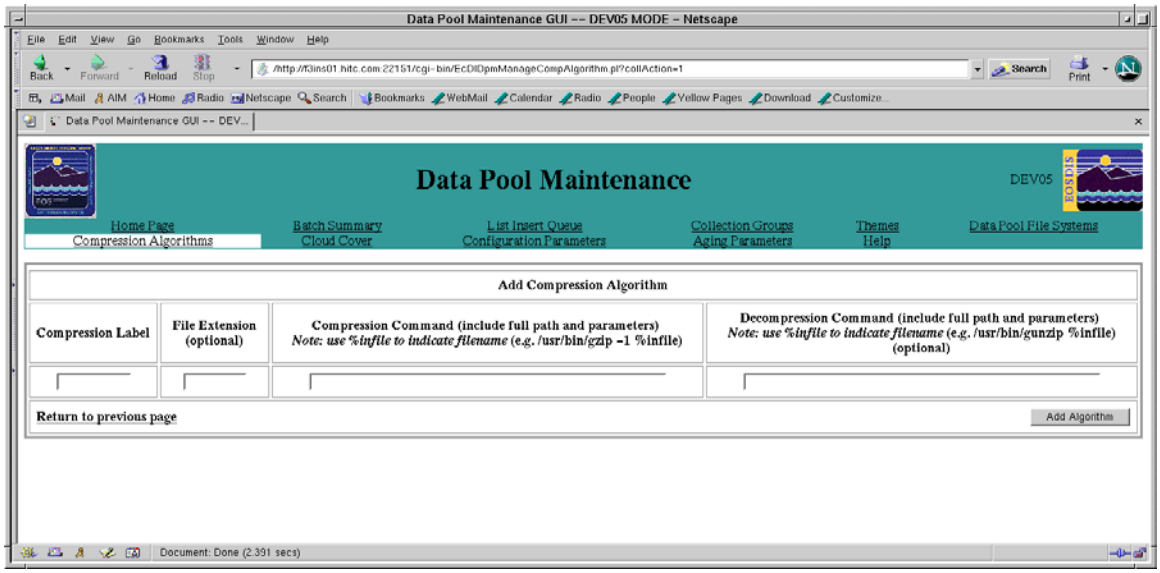

Figure 4.11.14-26. Add New Compression Algorithm to the System

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-16. Add New Compression Algorithm Field Description

Field Name	Data Type	Size	Entry	Description
Compression Label	character	10	Required	Label used to reference compression algorithm.
File Extension	character	10	Optional	Default file extension for compression algorithm
Compression Command	character	255	Required	Unix command line which runs the compression algorithm
Decompression Command	character	255	Optional	Unix command line which runs the decompression algorithm

4.11.14.1.7.3 Deactivate Compression Algorithm

The full-capability operator can deactivate a compression algorithm by clicking on the **Deactivate Compression Algorithm** link from Figure 4.11.14-24. This link will take the operator to the screen shown in Figure 4.11.14-26. To delete a compression algorithm click on the **Check Box To Deactivate** checkbox adjacent to the Decompression Command and the

compression algorithm will be marked inactive in the Data Pool database and the Compression Algorithms screen will be refreshed.

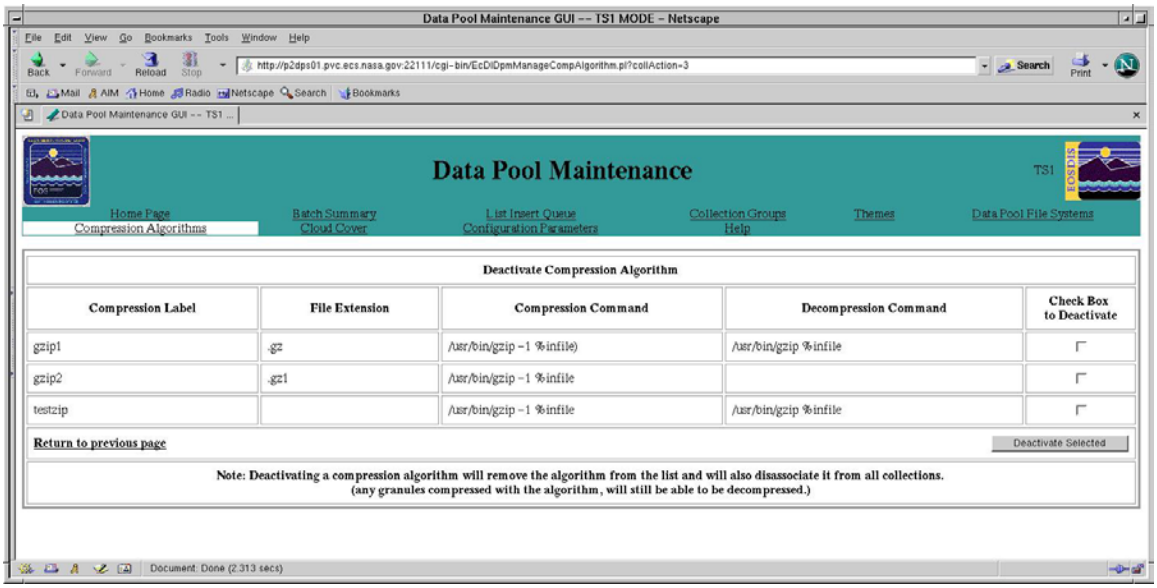

Figure 4.11.14-27. Deactivate a Compression Algorithm from the System

Table 4.11.14-17. Deactivate Compression Algorithm Field Description

Field Name	Data Type	Size	Entry	Description
Compression Label	character	10	Required	Label used to reference compression algorithm.
File Extension	character	10	Optional	Default file extension for compression algorithm
Compression Command	character	255	Required	Unix command line which runs the compression algorithm
Decompression Command	character	255	Optional	Unix command line which runs the decompression algorithm
Check Box To Deactivate	checkbox	1	Optional	Select when deactivation is needed

Note: Limited Capability users cannot use this functionality

4.11.14.1.8 Themes Tab

The Themes screen shown in Figure 4.11.14-28 allows the operator to view a list of themes in alphabetical order. This list can be filtered using three filter criteria: **Web Visible**, **Insert Enabled** and **Beginning Letters**. The options for **Web Visible**: Yes, No and ALL. The options

for **Insert Enabled**: Yes, No and ALL. All of these criteria can be used together or separately. After selecting the option click. **Apply Filter** button to view the filtered list of themes. From this page the operator can also delete a theme by selecting the corresponding Click On Box To Delete check box and clicking on the "**Apply Change"** button. The operator can add a new theme by clicking on the **Add A New Theme** link**.** This link will take the operator to "Add New Theme" page shown in Figure 4.11.14-29. The operator needs to add four fields regarding a theme: name, description, valid for insert or not and valid for web drill down or not. The operator also can modify an existing theme by clicking on the **"Modify Theme"** link from Figure 4.11.14-28. This link will take the operator to the Modify Theme page shown in Figure 4.11.14-32. Theme name is the only field that is not editable. The operator can modify the description of a theme by simply retyping in the text area. The operator also can change the option for Insert enabled and web enabled by selecting or deselecting the appropriate boxes. After making the selection the operator needs to select the check box corresponding to the theme and then press the **Apply Change** button. Upon pressing this button the changes will take effect in the Data Pool database and also the Manage Themes page in Figure 4.11.14-28 will be refreshed.

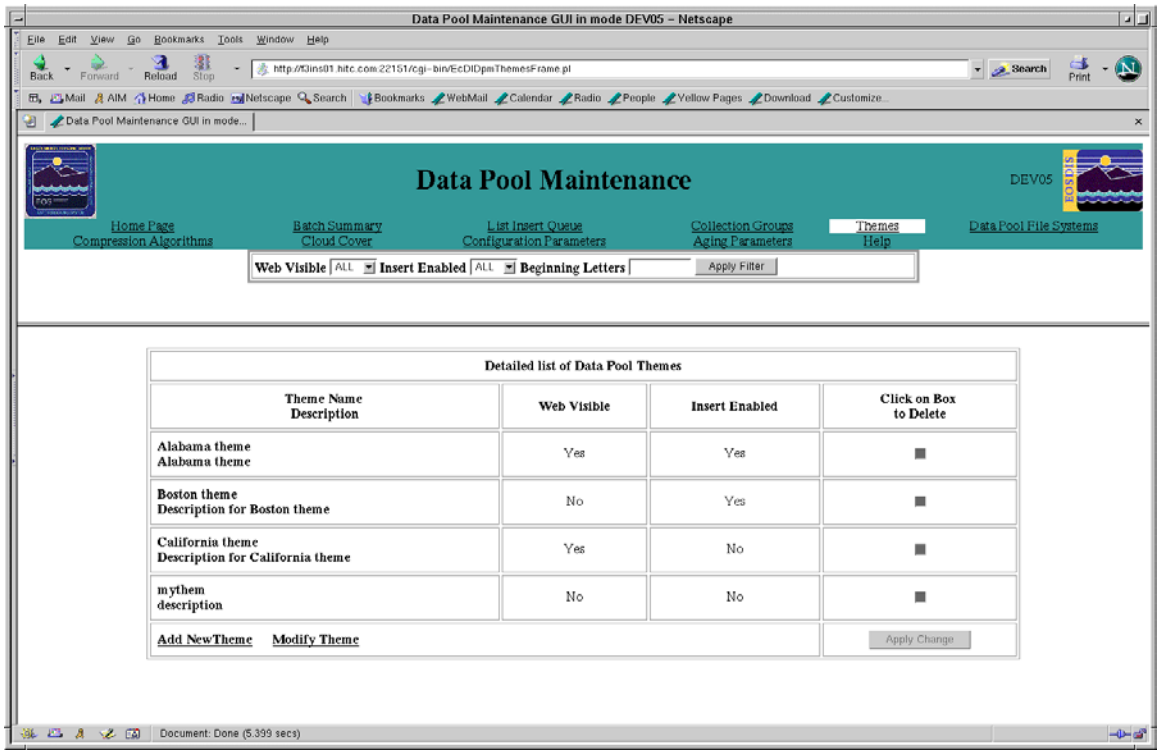

Figure 4.11.14-28. Themes Screen

Note: Limited Capability users cannot click 'Add New Theme' or 'Modify Theme' links. They also cannot delete themes. All check boxes and 'Apply Change' button cannot be clicked.

Table 4.11.14-18. Filter Theme Field Description

Field Name	Data Type	Size	Entry	Description
Theme Name Description	char char	40 100	Required Required	Partial or full name of a theme. Description of the theme.
Web Visible	char	1	Optional	Availability for Web scroll down. The default will be system generated.
Insert Enabled	char	1	Optional	Enabled for Data Pool insert. The default will be system generated.
Click on Box to Delete	check box	1	Optional	Option to delete theme name and its corresponding information once box is checked

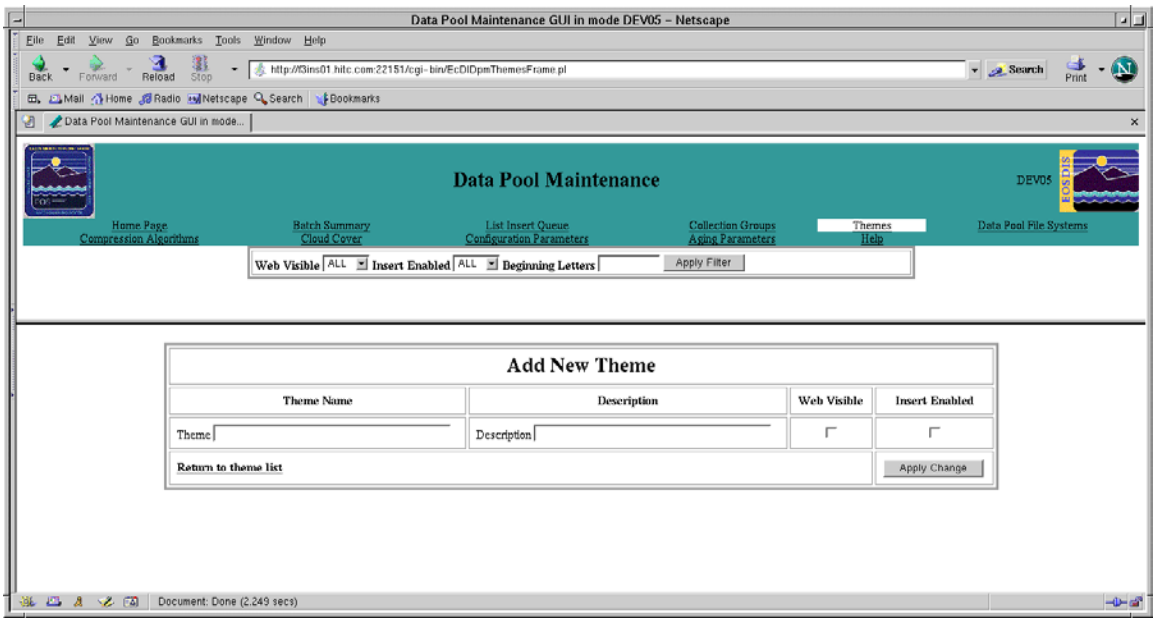

Figure 4.11.14-29. Add a New Theme Screen

Note: Limited Capability users cannot use this functionality

Table 4.11.14-19. Add A New Theme Field Description

Field Name	Data Type	Size	Entry	Description
Theme Name	char	20	Required	Name of a theme. Scrollable up to 40 characters.
Description	char	100	Required	Description of a theme. Scrollable up to 255 characters.
Web Visible	Check box	1	Optional	Availability for Web scroll down.
Insert Enabled	Check box	1	Optional	Enabled for Data Pool insert.

Theme names will be verified against input errors and name duplication. An error window will pop in each case over the **Add A New Theme** page to indicate the error. Click **OK** to dismiss the window.

Figure 4.11.14-30. Input Error screen

Figure 4.11.14-31. DB Error screen

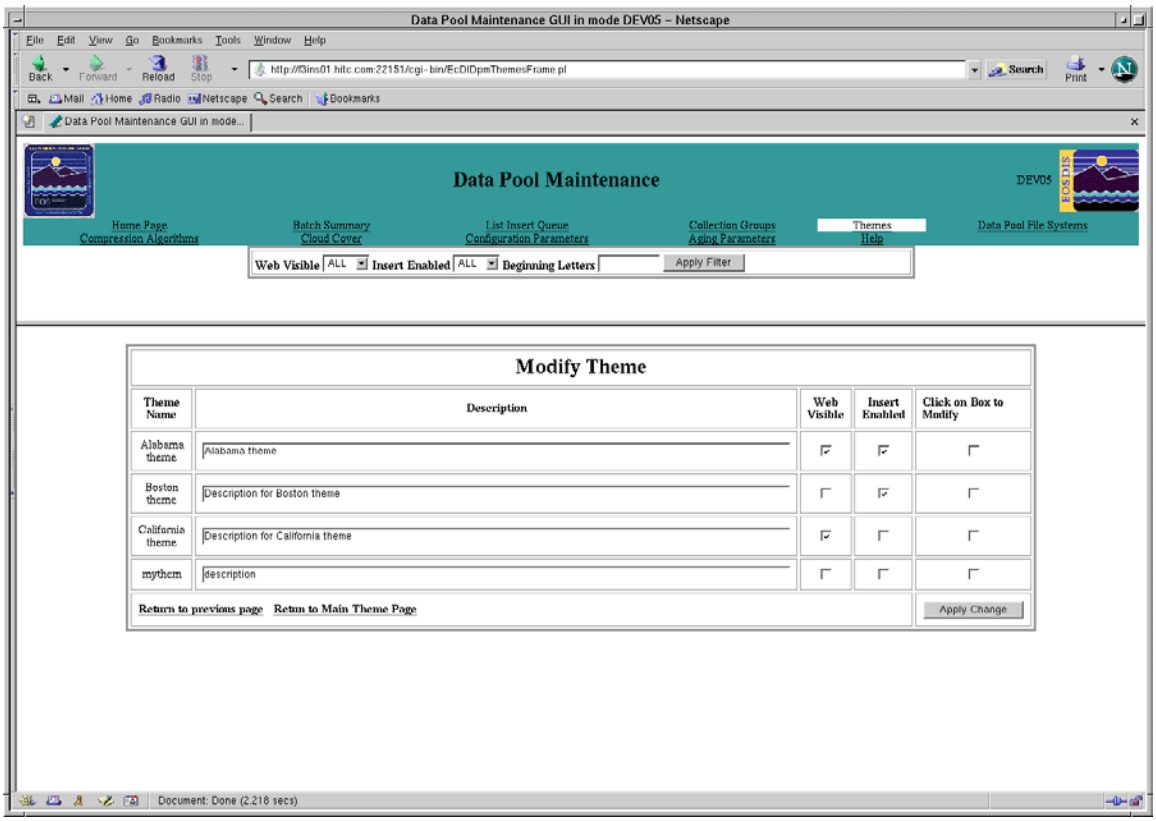

Figure 4.11.14-32. Modify Theme screen

Note: Limited Capability users cannot use this functionality.

Table 4.11.14-20. Modify Theme Field Description

Field Name	Data Type	Size	Entry	Description
Theme Name	char	20	Required	Name of a theme. Scrollable up to 40 characters.
Description	char	100	Optional	Description of a theme. Scrollable up to 255 characters.
Web Visible	check box	1	Optional	Availability for Web scroll down. Default will be not Web visible.
Insert Enabled	check box	1	Optional	Enabled for Data Pool insert. Default will be not available for insert.
Click on Box to Modify	checkbox	1	Optional	Select when modifications are needed

4.11.14.1.9 Cloud Cover Tab

Cloud Cover Information screen shown in Figure 4.11.14-34 allows the operator to view a list of Cloud Cover source names, their types and descriptions. It also provides check boxes beside each cloud cover information rows to delete any of the entries. Only full capability operators can execute this delete operation. The full capability operators can also configure a new cloud cover information and modifying description of an existing one by clicking on the link Add New Cloud Cover and Modify Source Description link respectively. Clicking on **Add New Cloud Cover** will take the operator to 'Add A New Cloud Cover Information' page shown in Figure 4.11.14-34. The operators need to add three fields --- 1) Source Type: A drop down list consisting of types. Currently there are two types: Core Metadata and PSA (Product Specific Attribute) . If 'Core Metadata' is selected then source name will be automatically populated. 2) Source Name: Need to enter a valid source name if 'PSA' is selected for Source Type. 3) Source Description: Need to enter a description for the source. This description can be 255 characters long. Clicking on **Modify Source Description** will take the operator to '**Modify Cloud Cover Description'** page shown in Figure 4.11.14-35. The operator can change the source description. There are check boxes associated with each cloud cover information. The operator can change information at one time by checking the desired cloud cover information's checkboxes and press on **Apply Change** button

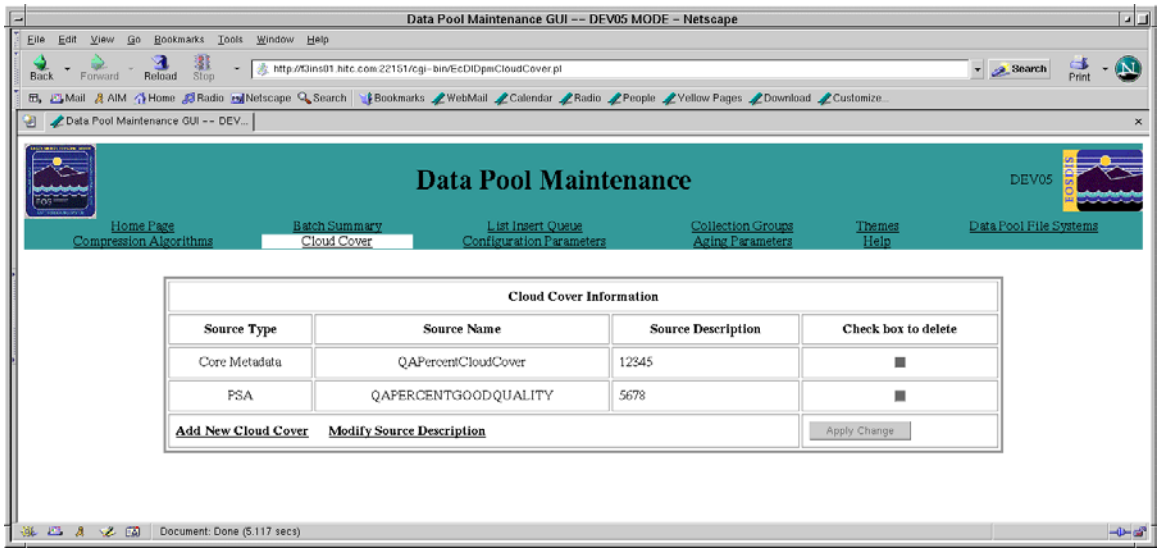

Figure 4.11.14-33. Cloud Cover Information screen

Note: Limited Capability users are not allowed to delete cloud cover information.

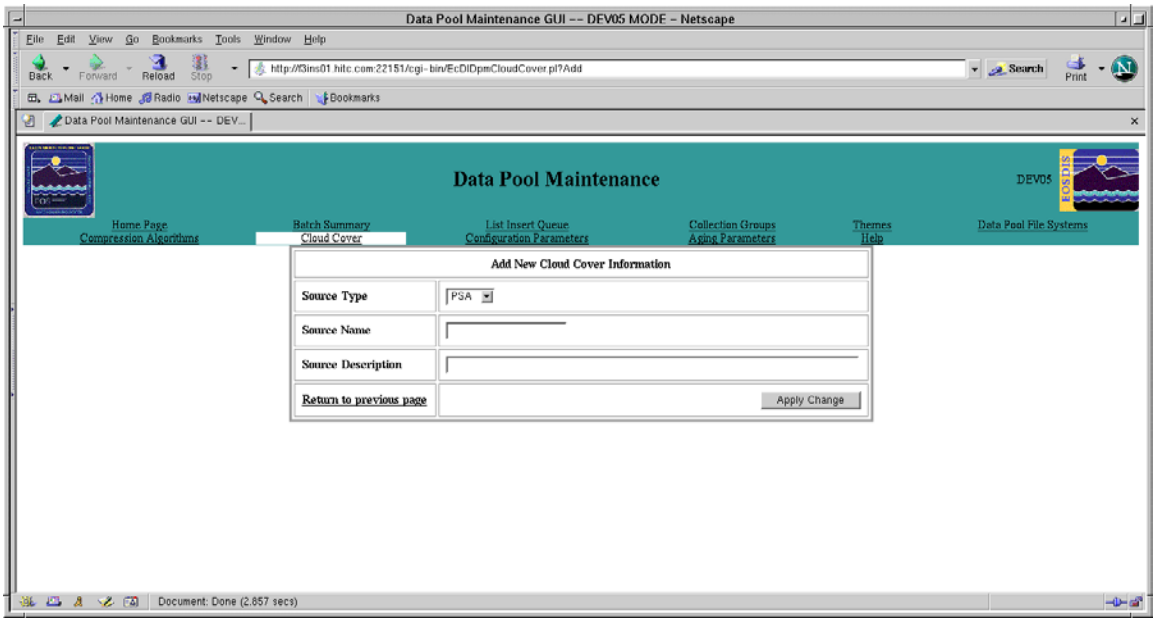

Figure 4.11.14-34. Add a New Cloud Cover Information screen

Note: This page is not accessible by Limited Capability users.

Table 4.11.14-21. Add A New Cloud Cover Information Field Description

Field Name	Data Type	Size	Entry	Description
Source Type	char	30	Required	Cloud Cover source type
Source Name	char	20	Required	Valid source name
Source Description	char	30	Optional	Description about the source name. Up to 255 characters long
Click on box to delete	checkbox	1	Optional	Option to delete theme name and its corresponding information once box is checked

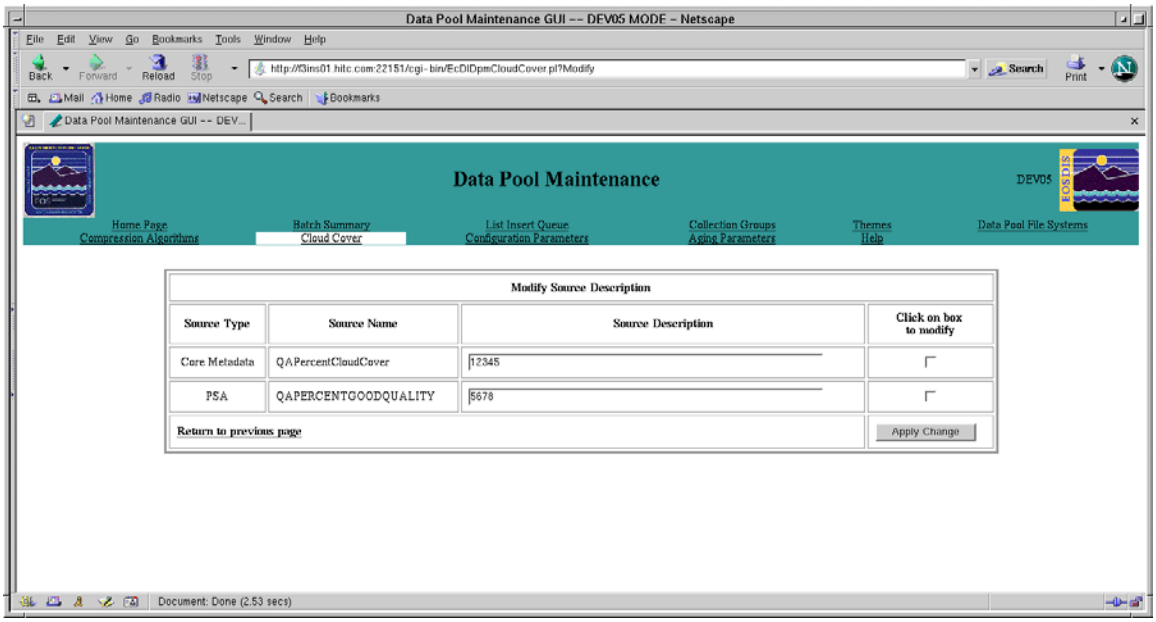

Figure 4.11.14-35. Modify Cloud Cover Description Screen

Note: This page is not accessible by Limited Capability users.

Table 4.11.14-22. Modify Cloud Cover Description Field Description

Field Name	Data Type	Size	Entry	Description
Source Type	char	30	Required	Cloud Cover source type
Source Name	char	20	Required	Valid source name
Source Description	char	30	Optional	Description about the source name. Up to 255 characters long
Click on box to modify	check box	1	Optional	Select when medications are needed

4.11.14.1.10 Aging Parameters Tab

Aging Parameters Page allows the operator to view a list of Aging Parameters, their starting priority values, aging step values and maximum priority values. It also provides check boxes beside each aging parameter information rows to modify any of the entries.

Aging step values and priority values can be modified. Only full capability operators can execute this modify operation. The operator needs to add new values in the text boxes and then click the **Click On Box To Modify** checkbox at the end of the row. After making all changes click on **Apply Change** button. This will refresh the screen with new values and also update the database.

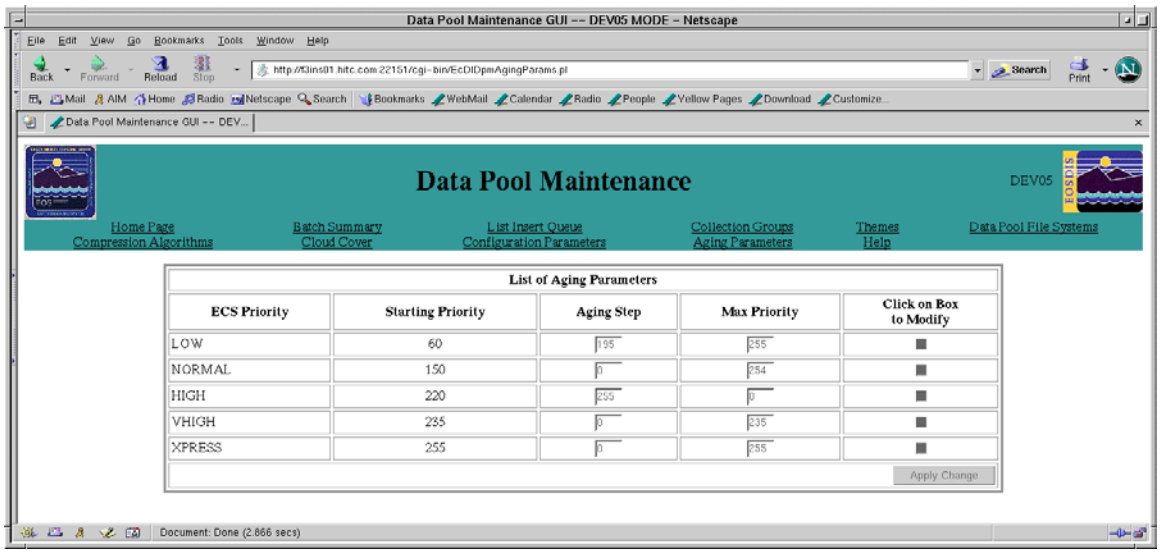

Figure 4.11.14-36. List of Aging Parameters Screen

Table 4.11.14-23. Aging Parameters Field Descriptions

Field Name	Data Type	Size	Entry	Description
ECS Priority	char	10	Required	Determines the level of priority for the Aging Parameter for ECS: Low, Normal, High, Very High, Express
Starting Priority	int	4	Required	Provides ascending order of Aging Parameters according to it priority number
Aging Step	int	4	Optional	Time interval to increase the priority value
Max Priority	int	4	Optional	Maximum priority value for an ECS priority level
Click on Box to Modify	checkbox	n/a	Optional	Select when modifications are needed

4.11.14.1.11 End Session Tab

The **End Session** tab is provided to end a session on demand. This tab is available only from the Data Pool Home Page. Upon clicking on **End Session** link it will bring up the **End Session** page shown in Figure 4.11.14-37.

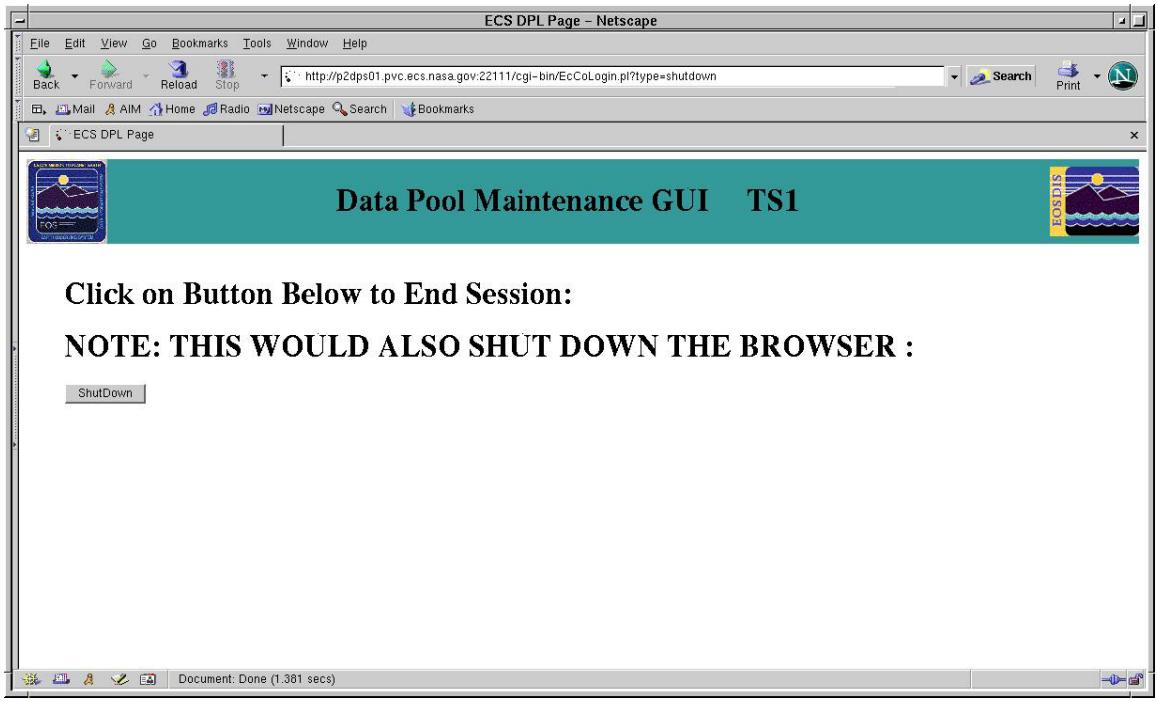

Figure 4.11.14-37. End Session Page

4.11.14.2 Data Pool Maintenance Main Screen

See Section 4.11.14.1.1.

4.11.14.3 Required Operating Environment

The following environment is required for the DPM GUI to work properly:

- The O/S requirements are Solaris 2.5.1 or higher

4.11.14.4 Databases

The DPM GUI accesses the Data Pool and Science Data Server databases.

4.11.14.4.1 Interfaces and Data Types

The DPM GUI exchanges data between the Web Browser and Sybase, using Perl CGI and DBI Modules for the Interface.

4.11.14.5 Special Constraints

There are no special constraints to running the DPM GUI.

4.11.14.6 Outputs

There are no outputs from the DPM GUI except for status and error messages.

4.11.14.7 Event and Error Messages

The DPM GUI writes status and error messages to the EcDlDataPoolGUI.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.14.8 Reports

The DPM GUI does not generate reports.